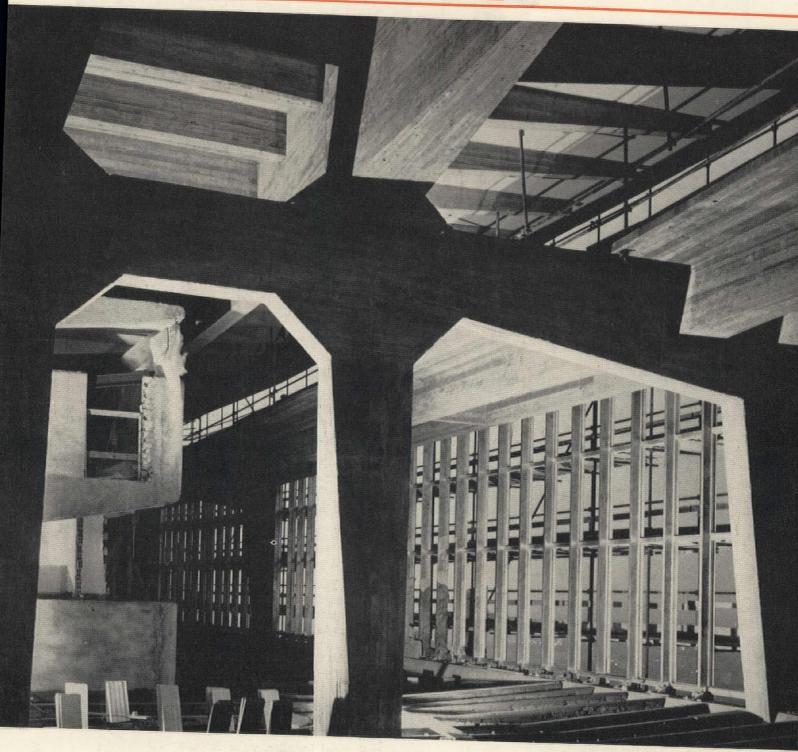
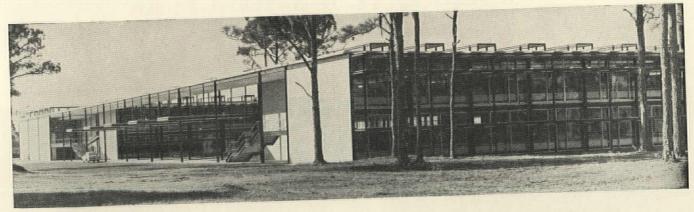
PROGRESSIVE ARCHITECTURE Mews report



- Powerful Construction Details Mark Milan Skyscraper (above)
- Baltimore Civic Center to Have Unique Roof System
- Curtain-Wall Spandrel Design Simplifies Construction



for the new SARASOTA SHOWPIECE



With four brand new schools opened this term, Sarasota is sure it can top any community in the U.S. in school architecture, a national magazine said recently.

One of the finest of the four is Riverview Junior-Senior High School, a 24-classroom, \$1,204,945, twostory building by Yale's Architecture Department Chairman Paul Rudolph. The school is built around a central courtyard, has exposed steel and white brick, copious canopies for sunshade - and a gymnasium floor that pleases both players and coaches as well as the architect.

Its patented design features extra thick maple

flooring, Powernailed to Dri-Vac treated, short-length fir sleepers floating on resilient pads. The floor system is not attached to slab, walls or other structural members to permit expansion and contraction without buckling or cupping. Air-channeled pads cushion the entire floor, preventing shin splints and improving play - and Perma Cushion's selected strips of Northern rock maple assure beauty and smoothness that last for generations.

Get the facts on PermaCushion for your next gym job. For information and name of your nearest authorized installer, write Robbins Flooring Company, Reed City, Michigan, Attn Dept: PA-959.

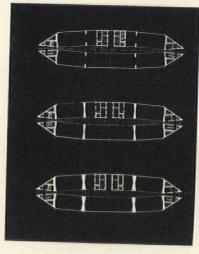
*Patented and Registered US. and Canada.

COMPANY ROBBINS FLOORING

Reed City and Ishpeming, Michigan

MAPLE FLOORS HARD MANUFACTURER LARGEST WORLD'S





POWERFUL CONSTRUCTION DETAILS MARK MILAN SKYSCRAPER

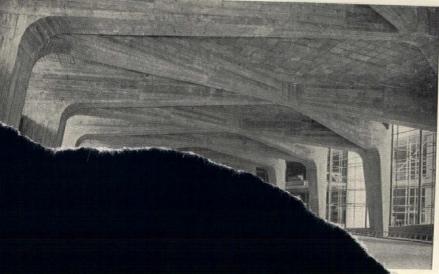
But Final Effect Is Diluted

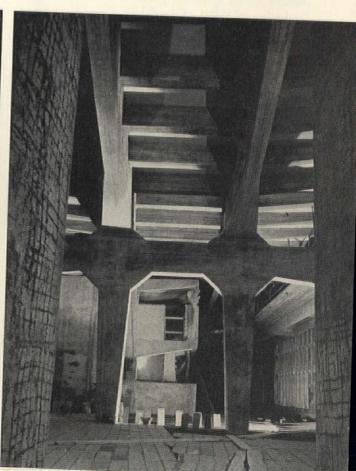
MILAN, ITALY—The latest large-scale commercial building in this city's postwar construction boom, the headquarters of Pirelli Company, has reached completion. A notable array of Italian architectural and engineering "names" designed the building: Architects Gio Ponti and Alberto Rosselli and Engineers Antonio Fornaroli, Guiseppe Valtolina, and Egidio Dell'Orto; with the structural-engineering collaboration of Pier Luigi Nervi and Prof. Arturo Danusso. The result of this combination of talents is a building of interesting structural innovations covered with a skin bringing it perilously close in appearance to the run-of-the-mine curtain-wall buildings of New York's Park Avenue.

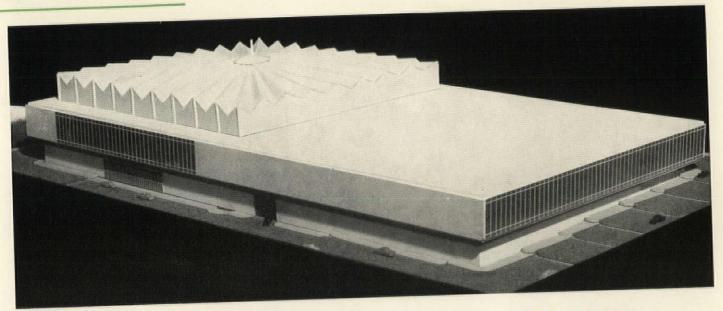
Structurally, the building comprises four giant, hollow supporting pillars—two at each end—which contain emergency stairs, elevators, and electrical and air-conditioning equipment. Between these are four intermediate bearing pillars. These piers, as can be seen in plan above, diminish in size as they reach the top of the building where there is less weight to bear. Central hall of each floor is widest at center of building, narrowing at ends where traffic is least.

The strong forms created by the use of prestressed concrete in the pillars and ceilings (below) evoke a far greater response than the bland façade of the completed building. Here can be detected the "fine Italian hand" of Nervi.









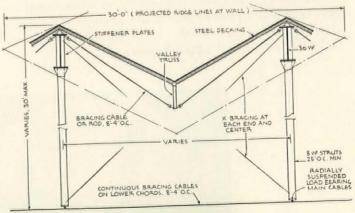
BALTIMORE CIVIC CENTER TO HAVE UNIQUE ROOF SYSTEM

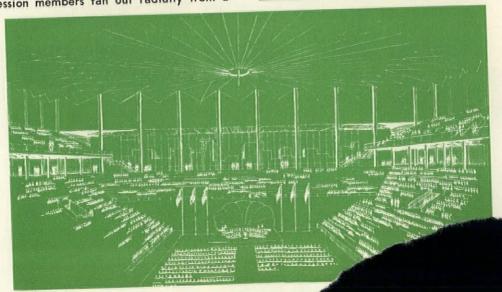
Auditorium, Exhibit Hall Part of City's Redevelopment

signed by Architect A. G. Odell, Jr. & Associates, Charlotte, N.C., and Engineers Severud, Elstad & Krueger Associates, New York, will stand across the way from the future Charles Center redevelopment in this city. A pedestrian walkway will later link the two centers. The civic center will have provision for a maximum 13,000-capacity auditorium under an inverted, folded-plate roof, and a 100,000-sq-ft exhibition area under a conventional flat roof. Parking space for more than 400 cars will occur below the two-level exhibition space.

According to the engineers, the auditorium roof is a suspended system completely closed in itself, with respect to the horizontal thrust of the cables. Compression beams hold end-points of load-carrying cables apart and rigidly in place, and maintain balance of horizontal cable forces. The beams which create the form of the roof by sloping from the center to the outer edges also transfer, by local bending, the roof-deck load and live load to vertical struts which transfer the entire vertical load to suspension cables. Cable and compression members fan out radially from a

common center point to provide a clear span of 270 feet. The roof gains its inverted, folded-slab appearance by lowering of the steel decking between compression beams to valleys that increase in depth toward the outer edge. This suspension system, according to the designers, "offers equally unique and economic framing for extremely long, non-fluttering spans covering any shape area."





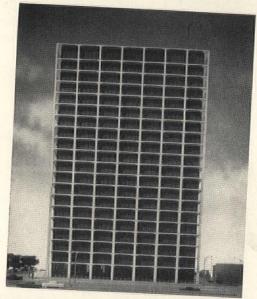
ARCHITECTURAL BULLETINS

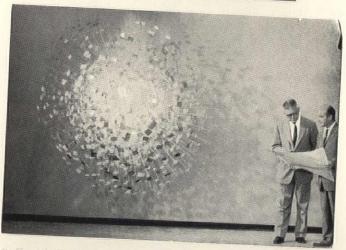


- Jan Rowan, Architect of Phoenix, Ariz., joins PROGRES-SIVE ARCHITECTURE this month as Feature Editor. He received his architectural education at Architectural Association School in London and at McGill University in Canada —where he won the Pilkington Prize in Architecture. Rowan has worked with Le Corbusier in France and with several offices, including that of I. M. Pei, in New York. He comes to P/A from his own successful private practice in Phoenix. He has taught at Pratt Institute, Cooper Union, Brooklyn College, and Rhode Island School of Design. Deeply concerned with developments in contemporary design techniques and structural advances, Jan Rowan is equally interested in office-practice problems, particularly those of smaller firms. His wide background of experience is expected to make him a valuable addition to the P/A staff in serving and informing the architectural profession.
- Pittsburgh's # 4 Gateway Center building (below) will be at apex of that city's Golden Triangle. Twenty-two-story stainless-steel-and-glass building will have exterior, stainless-steel-sheathed, service core containing bank of 12 elevators, air-conditioning equipment, and other heavy-service facilities. Owner-building is Equitable Life Assurance Society. Architects, Harrison & Abramovitz, New York; General Contractor, George A. Fuller Company; fabrication, erection of stainless-steel wall, Limbach Company.



Twenty-story Hartford Fire Insurance Company Building in Chicago will sit four feet inside its reinforced-concrete structural frame. Exterior columns are to be granite covered. Glass curtain-walled building will have an esplanade overlooking Chicago River, and a wide public plaza to the south. Two lower levels under plaza will add to building's usable space. Architects Skidmore, Owings & Merrill have specified gray-glass walls permanently sealed against dust and dirt. George A. Fuller Company, General Contractor.





- Zenith Radio Corporation salon in Chicago, designed by Architects Shaw, Metz & Dolio, features large sculpture group by Harry Bertoia. Main element of wall sculptures is this great burst of brass, eight feet in diameter. Each unit of group is lighted "to convey an abstract concept of electronics communications." Shown examining sculpture are Architect Alfred Shaw and Sculptor Bertoia.
- Graduate School of Public and International Affairs at University of Pittsburgh has expanded its Municipal-Metropolitan curriculum to include program of study in Urban Renewal and Redevelopment, according to Dean Donald C. Stone. Courses start with Fall semester.

p/a news report: bulletins

 Producers' Council will hold its 38th annual meeting and chapter officers' conference in St. Louis, Sept. 30-Oct. 2; last year's topic, "Dynamics of Distribution," will be resumed in reference to sales and marketing programs.... New York State Association of Architects meets at Lake Placid, N.Y., Oct. 8-10; New York Regional Council of AIA meets there also on Oct. 7. . . . Following 5th annual convention of Prestressed Concrete Institute in Miami Beach, Nov. 1-7, many members will take a field trip to Havana, Cuba, to view outstanding examples of prestressed concrete construction there. . . . 38th annual Oil Heat Institute of America convention will take place in New York concurrently with 23rd National Oil Heat & Air Conditioning Exposition at New York Coliseum, April 4-7, 1960. . . . 12th Triennial in Milan, Italy, will emphasize home and school in their relationships with architecture, town planning, interior decoration, and industrial design. International exhibition will last from July 16 to Nov. 4, 1960.



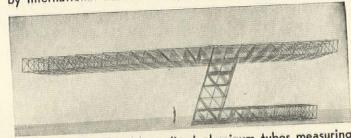
- Now everyone can have "sensual" architecture with readymade, prestressed-concrete, hyperbolic paraboloids. These were used in Cortez Shopping Plaza, Bradenton, Fla., by Architects Edward Dean Wyke and Lathrop Douglass. "Hypo" is made by West Coast Shell Corporation of Sarasota in nine stock sizes, from 8'x10' up to 100' square.
- "Floating mall" will be unique feature of Mission Valley Shopping Center in San Diego, Calif., designed by Albert C. Martin & Associates, Los Angeles. Parking basin will be provided beneath specialty-shop mall; two major depart-



ment stores will sit on banks of basin at each end of mall. Customers will reach mall via moving sidewalks. Shops will open onto mall, with perimetrical service corridors screened by decorative grills. Service, sales, and storage areas will thereby be focused on one level, permitting flexibility of partitioning between these elements, and optimum use of floor space. Center "will reflect in contemporary terms the style of the mission from which the valley takes its name" through use of arcades, courtyards, etc. Associated Architects, Frank L. Hope & Associates, San Diego.



- Design for building hung from concrete arch won a Mars Outstanding Design Contest award for New York Architect Seymour Rutkin. Circularly wrapped high-tension steel cables unify structure and also hold circular, concrete, floor slabs in compression. Service cylinder pierces center of building. Contest is sponsored by J. S. Staedtler, Inc.
 - New York has announced plans for 1964 World's Fair, to celebrate city's 300th anniversary (actually it is 300th anniversary of name of New York). Fair will be held at Flushing Meadow Park, site of 1939-40 New York World's Fair. Inquiry by P/A on August 14 revealed that no architect has been appointed yet. Los Angeles and Washington, D.C., have also announced world's fair intentions. Authorization for President to invite foreign exhibitors to such fairs would have to come from Congress, and fairs must be approved by International Bureau of Expositions, Paris.



- Octet truss of gold-anodized aluminum tubes measuring 100 feet long is part of exhibition of structures by R. Buckminster Fuller in garden of Museum of Modern Art, New York. Other structures are 55-foot-diameter plastic dome used by Air Force for DEW radar stations, and 45-foot-high discontinuous-compression, continuous-tension mast. Octet truss was cosponsored by museum and Aluminium Ltd. of Canada.
- John Knox Shear Memorial Fund, to award traveling scholarships, has been established by Carnegie Institute of Technology, where Shear formerly headed Department of Architecture.

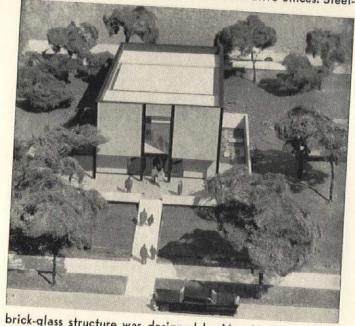
p/a news report: bulletins



- Immense 402-unit high-rise apartment building in Capitol Park Apartments has been opened in Washington, D.C. Designed by Washington Architects Satterlee & Smith for Roger L. Stevens and James H. Scheuer, unit is first element in high-rise/low-rise redevelopment shown above. Model of entire, 550-acre redevelopment (Webb & Knapp is developing other sections) was shown at American National Exhibition in Moscow to rebut Soviet claims of "slums in shadow of U.S. Capitol."
- Greater accuracy in determining the results of seismic surveys is now possible through the use of powder-actuated fastening tools, according to producers of Ramset Fastening System. Old method of striking sledge hammer against steel plate is replaced by firing fastening tool, without fastener, against steel plate to produce even flow of shock waves. Refraction seismograph then picks up waves, enabling soils engineers to compute depth of different soils and rock formations.
- Park Avenue's latest Rothscraper is this 50-story building, which will be largest commercial structure on the onceresidential street. Announced for completion in 1962, building will have more than 11/2 million sq ft of space. Architects: Emery Roth & Sons; Builders: Cauldwell-Wingate Corp.



- AIA and NAHB have announced first in series of annual Awards of Honor to architect-builder teams contributing most in one or more of following categories: Community Planning, Individual House Design, Improvement of Building Techniques, Public Service, Architect-Builder Relationships, and Service to AIA or NAHB. Entries must be submitted by AIA or NAHB chapters or by either national organization. Submissions must be received at AIA headquarters postmarked not later than Oct. 1, 1959. Awards will be made at 1960 conventions of AIA and NAHB. For details contact: American Institute of Architects, 1735 New York Ave., N.W., Washington 6, D.C.
- Hollis Unitarian Church, Hollis, N.Y., will contain Sunday school facilities, auditorium for religious services and other community activities, and administrative offices. Steel-



brick-glass structure was designed by New York Architects Peter Blake and Julian Neski; will go into construction this

Headquarters of Scott Paper Company, designed by Welton Becket & Associates, Los Angeles, will adjoin Phila-



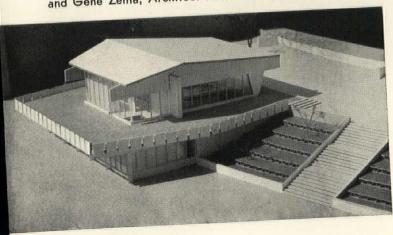
delphia's International Airport on 41-acre site. Initial plan includes six-story office building and three-story chemical and mechanical research laboratory; future elements include recreation building, another laboratory, and more offices. Cafeteria in office structure will overlook airport.

p/a news report: bulletins





- Yamasaki's "vertical Gothic" will grace Michigan Consolidated Gas Company Building in Detroit. Exterior walls will be composed of marble or quartz chips in white precast concrete. Windows will be in shape of elongated hexagons encased in stainless steel frames. Colored lights will illuminate crown of the building at night. Approach to building will be by bridge over reflecting pool. Associated with Minoru Yamasaki & Associates on the project are Smith, Hinchman & Grylls, Inc., Detroit.
- Manufacturing Chemists' Association, Inc., will undertake study at Southwest Research Inst., San Antonio, to establish basic fire-safety factors affecting use of plastics in buildings. One-year project will utilize actual plans for two proposed buildings-one for mutiple-occupancy building such as office building, the other for one-family house.
- University of Washington Nuclear Reactor Building will be used to train students in operation of nuclear power plants and as research facility for College of Engineering. Surrounding deck will be used for viewing reactor operations, plus outdoor exhibits. Reinforced-concrete structure will have reactor room spanned by four-foot wide precast concrete channel slabs resting on ten-inch thick poured beam walls which also support steel beam-rails of traveling fiveton crane. Architects: Wendell Lovett, Daniel Streissguth, and Gene Zema, Architect Artist Group, Seattle.



Personalities

 New Orleans Architect I. WILLIAM RICCIUTI has been made president of New Orleans Philharmonic Symphony Society. Ricciuti, describing his childhood struggles with another muse, said he became the "worst violin player in the world".... CARL KOCH & ASSOCIATES, Cambridge, Mass., has been retained by Ferro Corp. to design series of homes featuring porcelain enamel on steel. Designs will be part of program in which Ferro, together with U. S. Steel Corporation and Fenestra, Inc., plans to design and construct pilot models of "highest quality homes of porcelain enamel on steel which can be available at lowest possible cost".... CHARLES FRANCIS MURPHY (Naess & Murphy, Chicago) received Building Stone Institute's 1959 award for outstanding contributions in field of architecture. Murphy "by his creative designing, has developed a variety of architecturally distinguished buildings [capitalizing on] beauty and durability of natural stone," stated P. J. Valentine, BSI president. . . . KENNETH M. NISHIMOTO, Pasadena architect, will lead his 4th annual Architects' Tour of Japan, leaving San Francisco Oct. 13. Contact him at 263 So. Los Robles Ave., Pasadena, Calif. . . . HAROLD A. HARTY, Wolverine Tube executive, was elected Chairman of Board of National Industrial Advertisers Assn., during group's recent San Francisco convention. . . . CLARENCE E. DAY (vice-president and director of Harley, Ellington & Day, Inc., Detroit architects-engineers) retired after 54 years of practice. He will continue to serve firm in consulting and advisory capacity. . . . ROBERT S. HUTCHINS and GILMORE D. CLARKE named Supervising Architect and Consulting Landscape Architect, respectively, for Vassar College. Hutchins will represent his firm, Moore & Hutchins, New York, in development of over-all plan for future development of school. Clarke will represent Clarke & Rapuano, New York, in advising on campus landscaping. . . . The other partner of Moore & Hutchins, JOHN C. B. MOORE, was elected president of Fine Arts Federation of New York. Architects elected directors of Federation were WALTER H. KILHAM (O'Connor & Kilham) and FRANCIS KEALLY. . . . HIDEO SASAKI became professor of landscape architecture at Harvard Graduate School of Design, in July. . . . PERRY E. BORCHERS, associate professor of architecture at Ohio State, has been awarded McKim Traveling Scholarship by his alma mater, Columbia University. He will study "three-dimensional recording of architecture in space" of Baroque and Byzantine churches in Europe. . . . HAROLD LEEDS, architect and interior designer, is new chairman of Interior Design Department, Pratt Institute, Brooklyn. . . . DR. WALTER GROPIUS reports that TAC will establish new office in Rome, to be called The Architects Collaborative International. Principle reason for branch is supervision of firm's Iraq project, Baghdad University. . . . NORMAN J. SCHLOSSMAN (of Loebl, Schlossman & Bennett, Chicago) is chairman of study committee on school fire safety for Building Research Advisory Board and Committee on Fire Research, two groups of National Academy of Sciences-National Research Council. Study is being made under grant from Educational Facilities Laboratories, Inc.

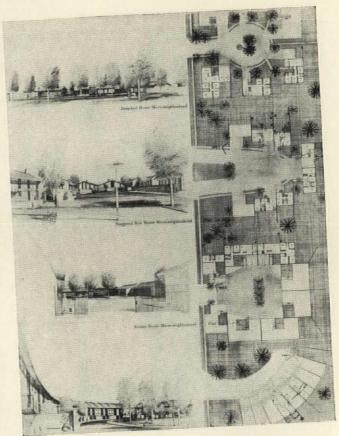


LAVISH NEW YORK RESTAURANT READY FOR GOURMET PALATES

NEW YORK, N. Y.—This city's most elaborate restaurant to date has opened in the Seagram Building on Park Avenue. It is "The Four Seasons" owned by Restaurant Associates. All design elements of the restaurant will be detailed in a RELATED DESIGN FIELDS article in DECEMBER 1959 P/A.

Architect of "The Four Seasons" is Philip Johnson, assisted by William Pahlmann Associates, Interior Designers; Garth & Ada Louise Huxtable, Industrial Designers; Richard Kelly, Lighting Consultant; Karl Linn, Landscape Architect; Sculptor Richard Lippold; and Emil Antonucci, Graphic Artist.





COMPETITION WINNERS SUGGEST AVENUES FOR HOUSING IMPROVEMENT

Planning and Economics Emphasized by Jury

VAILS GATE, N. Y .- Alarmed by the continued spread of monotonous, repetitive, soul-destroying housing developments across the American landscape, Mastic Tile Corporation ten months ago established a \$25,000 competition for design and planning of better community developments (DECEMBER 1958 P/A, page 34). The pressing nature of this problem and its interest to architects was made apparent by the receipt of hundreds of entries from architects and students throughout the country. From this group, a grand prize, second prize, third prize, and four merit awards, plus first, second and third student prizes and four student merit awards were selected recently by a Jury headed by Pietro Belluschi and including Edward H. Fickett, George Fred Keck, Reginald Roberts, and Joseph H. Orendorff (Special Assistant to Administrator, FHA). A. Gordon Lorimer was professional advisor. Certificates of Achievement were also given in professional and student groups.

According to Belluschi, "... this competition should be able to show that any good piece of building land need not be abused by the usual long and dismal row of salt boxes which in recent years has marred the semi-urban landscape of our nation; and it should give a demonstration of the fact that, with a little care and ingenuity, interesting relationships between houses [can] be achieved, producing amenities without added cost."

Entrants in the competition were given for "development" an undeveloped farm site "in the general industrial Great Lakes area on the periphery of a major city." Program stated that residents would be middle-income families with total

capital investment per family of \$16,000-\$24,000.

Grand Prize Winner (above) was one of the few winners which did not include high-rise apartments. The Jury felt that this solution would be within the technical abilities of the average builder. It was also felt that this program solved internal traffic problems while maintaining peace within house groups. Architects: Howard R. Meyer, James Reece Pratt, John Harold Box, of Dallas, Texas.

Second Prize Winner, by Manuel Dumlao, Robert Burley, Edward Kovach, of the office of Eero Saarinen & Associates (above, right), drew from the Jury the comment that "the intermixing of individual houses, staggered rows of houses, and co-operative apartment groupings is particularly well

handled." A unique system of residential nuclei (center right) was the solution of another group from the Saarinen office: Paul A. Kennon, Chartier Newton, Henning Huth, Phil Kinsella, Jr. The Jury appreciated the "strong sculptured effect of the court clusters of residences." Cars for each "nucleus" are stored in areas beneath its court.

Pratt Institute Students George Ohanian and Fernando Gonzalo won First Prize in the student group for their orderly proposal (bottom, right). This entry was noted for "its realistic approach and fine solution."

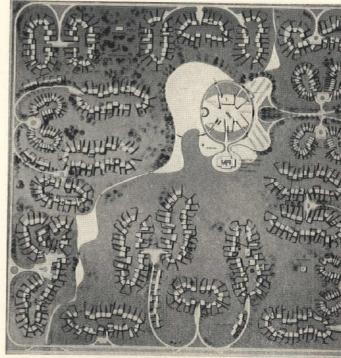
Juror Keck said it was "interesting to find many site plans based upon (or justifying) Henry Wright's early 1920 Radburn plan. This plan recognizes again the forgotten pedestrian . . . [it] has been forgotten for a long time and few, if any, actual tract projects have adopted it."

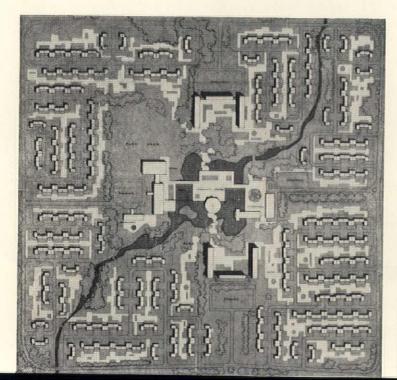
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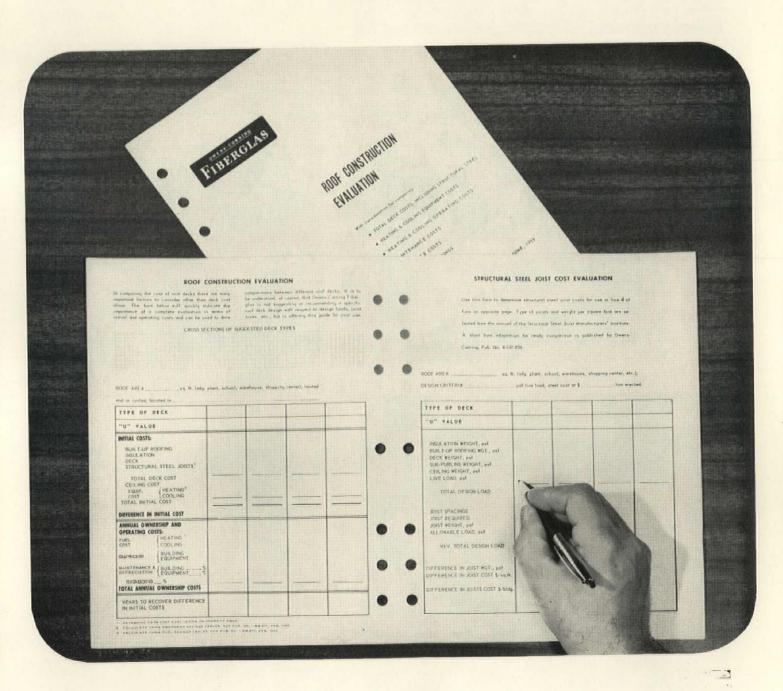


IDEAS **NEW AND** NEWSWORTHY

FROM OWENS-CORNING FIBERGLAS:

HANDY WAY to estimate the cost of roof constructions

Now Fiberglas assists you in making helpful esti-mates. The new Roof Construction Evaluation Chart shown below quickly brings cost estimates together and provides an easy way to compare different roof constructions. The chart considers initial and operating estimated cost of the heating-cooling equipment in relation to roof-ceiling thermal performance, as well as similar costs of deck insulation and built-up roofing. Other factors included are joist weight and other variable and fixed cost items. Owens-Corning Fiberglas representatives will gladly show you how a Roof Construction Evaluation works for any roof construction you plan. For complete information, write: Owens-Corning Fiberglas Corporation, Department RCE, 717 Fifth Avenue, New York 22, New York.

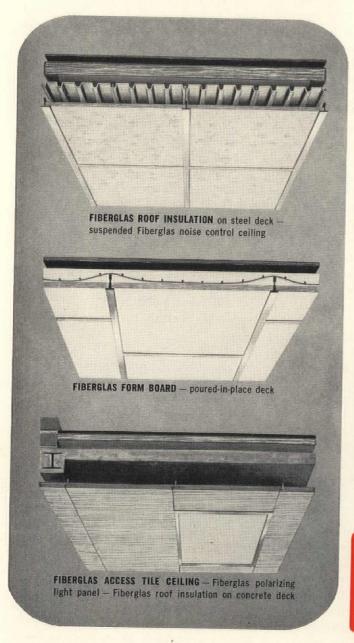


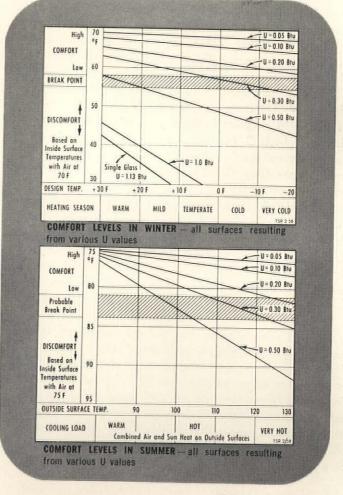
HOW TO CHOOSE the right roof-ceiling combination for above and below the deck

The wide range of Fiberglas products fits most types of roof construction. Below are examples of how Fiberglas products "build-in" adequate thermal and/or acoustical performance. Top: combined thermal-acoustical treatment for steel decks using roof insulation above the deck and a suspended ceiling board for noise control. Low U value depends on thickness of insulation and a U of .04 is possible by adding Fiberglas Sonobatts on top of the ceiling board. Middle: low-cost Fiberglas Form Board and poured-in-place deck combination with a U value of .16. The Form Board serves as a permanent thermal-acoustical insulation and interior surface finish. Bottom: new Fiberglas Access Tile and new Fiberglas Polarizing Light Panel in a suspended ceiling under a 4" concrete deck. With 1" Fiberglas Roof Insulation, combination produces a U of .10.

WHY U=.15 for heating and .10 for cooling provides optimum thermal design

Designing for proper U value is important, since amount and kind of insulation affect both cost and comfort. Human comfort within a building can be expressed mathematically with surprising accuracy, even though the "comfort yardstick" has been established by empirical methods. Design criteria of U=.15 for heating and .10 for cooling represent a reasonable balance of initial and operating cost savings with desirable comfort levels. These recommendations were published in Construction Specifier Magazine, based on a study of constructions and analysis of heating-cooling equipment initial and operating costs. For assistance in determining thermal requirements, contact your Fiberglas representative or write: Owens-Corning Fiberglas Corporation, Department RCE, 717 Fifth Avenue, New York 22, N.Y.





*T-M. (Reg. U.S. Pat. Off.) O-C.F. Corp.



FINANCING OF MUNICIPAL REDEVELOPMENT EXPLORED

by William Hurd Hillyer

Benjamin Franklin's observation that it is always profitable to pay court to older women, because they appreciate it so much, can be applied to the current enthusiasm for redevelopment of our older downtown districts. Approaches to this problem by architects and city fathers, which are at once sensitive and practical, will result in a gratifying revitalization of the in-town sections. In a recent statement, Oliver M. Walker, chairman of NAREB's Committee on Real Estate Economics, wrote, "The central zone continues to perform its function as the heart of the community, demonstrating its capacity to prosper and grow almost in direct ratio to the action of property owners and municipal authorities in providing the modern parking and traffic facilities that are prime attractions in outlying areas." We shall try to discover how these plans for downtown revitalization are financed. Baltimore has such a plan calling for \$470 millions during the next 20 years. Private investors will take up three-quarters of the cost, with the City of Baltimore and the Federal Government splitting the remainder. From New England comes word that commercial redevelopment is expensive; Federal, state, and local governments are spending over \$150 millions in about 50 downtown renewal projects in that region. Portsmouth, N.H., proposes converting the area into a historical center similar to Williamsburg, Va. Lowell, Mass., is gradually transforming its stagnant business area into a completely modern one. Louis C. Purdey, executive director, Peninsula Industrial Committee for Newport News, Hampton, York County, James City County, Virginia, claims industrial financing opportunities equaled in few southern sections; multimillion-dollar plant construction can be funded by issuance of low interest, tax-free revenue bonds. The Federal Reserve Bank of Richmond, Va., states that at end of 1958, 392 communities in 41 States, District of Columbia, Hawaii, and Puerto Rico had completed, were planning, or carrying out 685 urban renewal projects. It lists what is needed for Federal aid in urban renewal: (1) comprehensive community plan; (2) adoption and enforcement of adequate building, welfare codes, and ordinances; (3) detailed analysis of blighted neighborhoods to determine treatment; (4) establishment of administrative organization to carry out program; (5) statement of provisions made for meeting its share of costs; (6) plans for housing displaced families; (7) community-wide citizen participation and support. With this listing perhaps more architects will be inspired to start their communities on such a program.

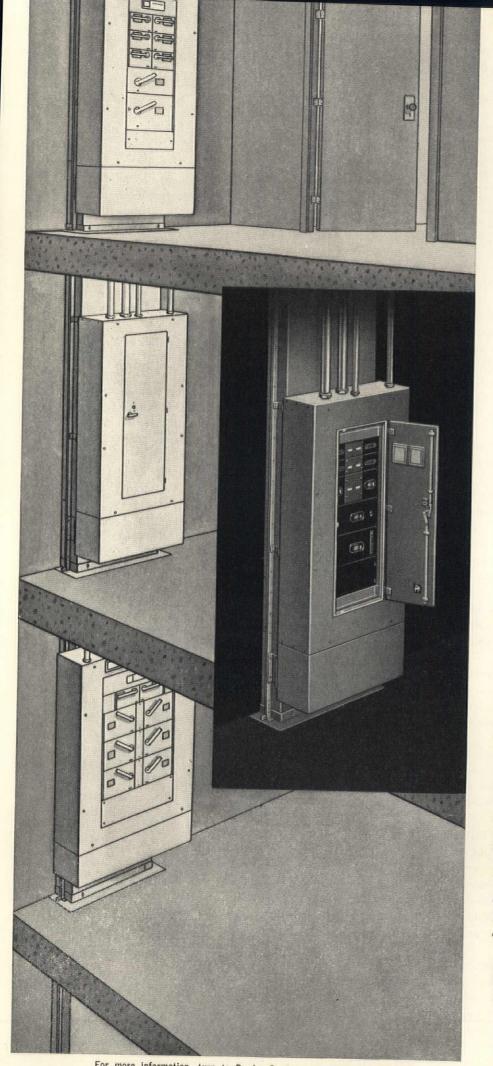
• Mrs. Hoffman, Director of the Bank of America (founded by her father) upon her return from a ten-day meeting of NATO's Atlantic Congress in London, said: "I think we in America have to give first consideration to depreciation of our dollar. When one travels and talks with leaders abroad, one finds there is a declining confidence in the dollar. The fact is that we have not curbed our Government spending and Government deficits. The result is inflation and a declining confidence in the dollar's value. The evidence of declining confidence in the dollar is shown in the fact that foreign nations have been withdrawing their gold

reserves." Federal Reserve Bank of New York gave the decline of our gold in 1959's first six-and-a-half months as \$853 millions, but this decline was exceeded by 1958's similar period.

The American Banker editorializes: "The relation of our gold stock to our banking and currency system affords endless opportunities for statistical exercises, alarming and otherwise. . . . There is general agreement that the shrinkage in our bullion has reflected a redistribution of gold to central banks abroad, which in turn has reflected an economic recovery of overseas nations . . . the objective of U.S. foreign economic relations ever since the war."

An experienced observer is certainly the Berliner Handels-Gesellschaft of Frankfurt am Main, one of the leading banks of West Germany, with total assets equivalent to some \$145 millions. The bank's Economic Review states: "It follows there is no prospect of any dollar devaluation in the form of a rise in the price of gold. There is all the less chance of it because the countries which have the principal currencies would at once follow suit, so that devaluation could not be expected to produce any effect at all on the balance of payments."

- According to Government reports: Building activities rose to new highs in June and the first six months of this year. New construction in this year's June rose to \$5 billions; this was up \$400 millions from the previous month and up \$600 millions from the like month of 1958. Private construction spending in June rose about \$300 millions and totaled \$3.5 billions, about \$500 millions over June, 1958. Public construction outlays in June were \$100 millions over the previous month and the like year-ago period with a total of \$1.5 billions. Private housing starts in June rose to a seasonally adjusted annual rate of 1,370,000, up from a 1,340,000 pace in May. At June's end 709,500 private and public dwelling units were under construction—an increase of 32% over 1958's first six months and a record high for the period.
- Requests for VA appraisals of proposed homes in June totaled 27,164—the largest number since August 1958. Total was 31% above May's and actual starts in June came to 10,958-6.9% up from those of May. Actual applications for home loan guarantees advanced 1.1 % in June to 16,975. Mr. Harry Held, senior vice-president of Bowery Savings Bank, New York, and regional vice-president and chairman of the Research and Educational Trust Fund of Mortgage Bankers Association of America, recently said we have "minimized the possibility of a recurrence of conditions like those of the 1930s . . . measures [have been] taken to prevent future depressions and deflation, changes in mortgage loan contracts, particularly the universal shift to the amortized long-term loan in home financing." Illinois passed new amendments to its savings and loan law which permit State-chartered associations to make 80% straight mortgage loans for 18 months on individual tradein houses, and also on a builder's or realtor's revolving inventory placed in trust. It is felt that similar laws may find their way into other states.



For more information, turn to Reader Service card, circle No. 302



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pla news report. Washington

STONE DISCUSSES NATIONAL CULTURAL CENTER

by Frederick Gutheim

In a distinguished career that has included extensive experience in public building, culminating in recent years in the American Embassy in New Delhi and the famous pavilion in the Brussels Fair, Edward Durell Stone reached an unmistakable climax here this summer when, within a few days, he was named architect for the large new National Presbyterian Cathedral Center, on Massachusetts Avenue, and also the National Cultural Center. A great deal has been written since about both the architect and these two projects, especially the latter. As the most informative to date, and my personal nomination for the AIA's journalism award for 1959, I am devoting this column to reprinting the fascinating question-and-answer session with Stone which appeared as Betty Beale's column, "Exclusively Yours," in the July 17 Washington Star.

I Will the cultural center be modern or will it conform to the classical architecture of Washington?

"This is a very important monument idealistically and it should be here for centuries. So it's important that it not be dated, that people two generations from now won't say 'that is the way architecture looked in 1960.'

"Idealistically, architecture is an ageless art, so the origin of a building like this should be lost in history, as it were. Just as it should not be what is currently the mode, neither should it be archeological. By that I mean it shouldn't be a copy of a building of a past culture, It really should represent 2500 years of Western culture rather than 25 years of modern architecture."

2 Artist Peter Hurd said here last week he doesn't believe Washington should be a proving ground for beauty. Do you agree?

"You don't want to make the rules so stringent that your imagination is restricted. However, this building is something to be taken very seriously indeed since it speaks for the cultural maturity of a country."

3 Will the center be all white or will color be used?

"I would say this, that Washington is primarily a city of white bulidings in a park-like setting. I would see no reason for departing from that.

"Paris is a city predominatly gray with accents of gold and iron work and the beauty of Paris is that it is all unified by the same materials as opposed to the crazy-quilt pattern of the average American city where everyone lets his ego be manifest.

"This building should follow the tradition of white buildings in a park."

4 Have you decided on what materials you will use?

"No, we have not, but I would assume that where masonry is used it would be stone.

"This obviously is a place for recreation. Although it is a very serious Government building, it should not have the character of a building for the Treasury, say. But it should have some of the things people associate with dignified places of recreation. I guess the traditional symbols of gaiety in a serious building would be white and gold and the traditional red velvet and brocade and crystal chandeliers."

5 Will the building be ornamented with sculpture?

"I would think since we have developed such talent in this country in painting and sculpture we would want to incorporate the work of our talented sculptors and painters and that is in the tradition of architecture since the time

of the Greeks."

6 What is the maximum seating planned for the cultural center?

"No specific program has been formulated. It could have an auditorium which is devoted exclusively to opera, plus a symphony hall exclusively for concerts plus a theater, and that conceivably would be a flexible auditorium where you could have a seating a 1000 to 1200 for drama which might be expanded to 2000 for musical plays and operettas. It might be deemed advisable to have small rooms for conferences, etc., but it has not been decided.

"Expanding the seating audience from the sides has been done in one theater in Malmo, Sweden, and we are doing it in one theater in Akron."

7 Will the building include a room suitable for an inaugural ball or dressy state occasion?

"One suggestion made, and I think it's an interesting one, is that the concert hall be so decorated as to have a ballroom character rather than an austere charcter, and so designed that a floor could be placed over the seats, as is done in the Paris Opera House when great balls are given there.

"I felt apologetic about our country when New York gave a formal reception for the Queen in an armory. It seems that a country as great and wealthy as our should have rooms for state occasions. Smaller countries have them." 8 Will the stage be big enough for the largest Bolshoi Ballet?

"It would be important to have the stage of our opera specifically arranged so that it would be suitable for the Metropolitan Opera and visiting companies. We should take into account what all countries have for backstage facilities so if they visit here our facilities will not handicap them."

9 Will electronics be used, in controlling curtains, for instance?

"I do not know of any electronically controlled curtains but this is an area where we will make use of all the 20th Century technical advances.

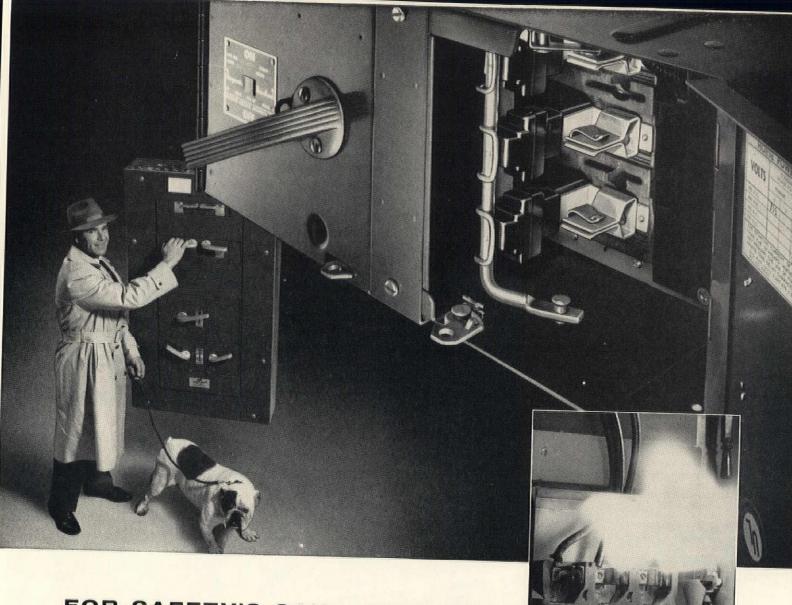
"You see there have not been any legitimate theater or opera houses built in this country in the last 25 years, so that there are no real prototypes for this building. None of the great technical advances have been recorded. Lincoln Center is still in a preliminary stage of development."

10 What kind of parking facilities do you plan? When Mr. Wright spoke here he said the beauty of buildings is destroyed when surrounded by cars.

"What we would visualize and this depends a great deal on water tables—it's very critical here—are two or possibly three levels of parking beneath the building so that the cars would be under cover and people would have direct access to the building. The buildings of today are irreparably damaged by cars around their perimeter."

II Will the landscaping include a vast sweep of green down to the Potomac?

(Continued on page 112)



FOR SAFETY'S SAKE, SPECIFY VACU-BREAK POWER PANELS

Here are some basic facts why BullDog Power Panels with Vacu-Break* units are tops in safety and performance. Vacu-Break design minimizes destructive arcs because contacts are housed in compact chambers that extinguish the arcs immediately. Result: maximum safety . . . virtually no pitting or burning of contacts . . . minimum maintenance. Vacu-Break switch units are "quick-make, quickbreak" with an interlocking safety mechanism. Contacts are directly attached to operating handle. No tricky toggles or springs. You get positive, safe switching always. And when the handle is in OFF position, you know the switch is off!

The Clampmatic* design provides clamped-pressure switching con-

tacts to prevent overheating at these points. Needless heat-generating areas are eliminated because there are no hinged, current carrying parts . . . and all conductors are silvered. BullDog switches also withstand severe fault currents. In recent tests, standard BullDog switches with Amp-Traps** were subjected to a 100,000-amp short circuit current. They were undamaged!

For safety's sake-and superior performance-specify BullDog Vacu-Break Power Panels.

Dangerous flash explosion occurs at instant of "break" in open knifeblade switch . . . causing blades to burn, pit, deteriorate. (This photograph and the one below are unretouched.)



BullDog Vacu-Break chamber smothers arcs before they can cause damage. Both are 100-amp, 600-volt switches, operating under 90-ampere, 440-volt load with 40% to 50% power factor.

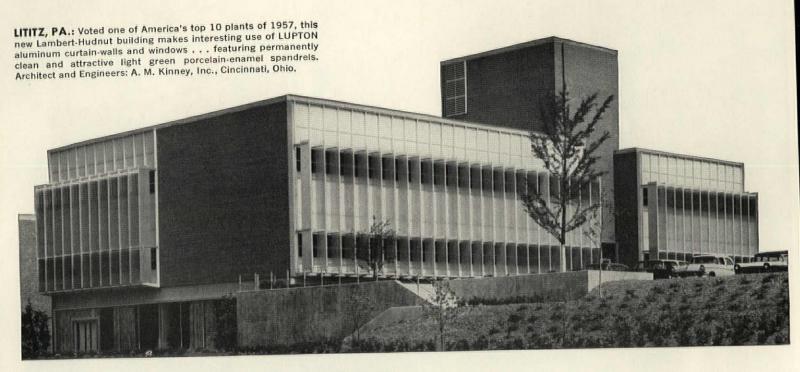


BULLDOG ELECTRIC PRODUCTS DIVISION I-T-E CIRCUIT BREAKER COMPANY

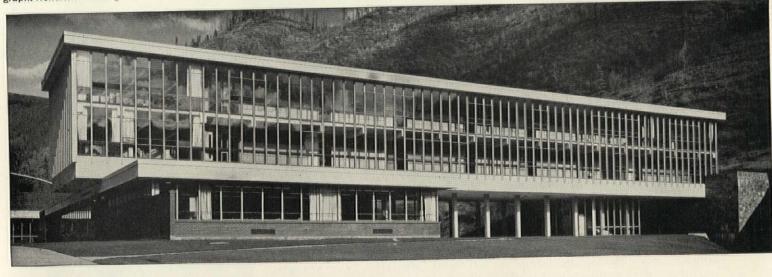
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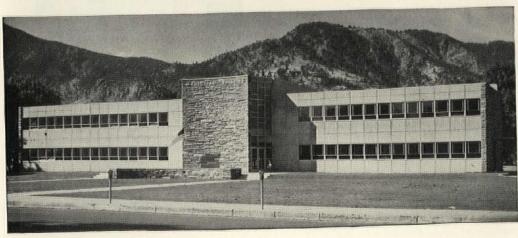
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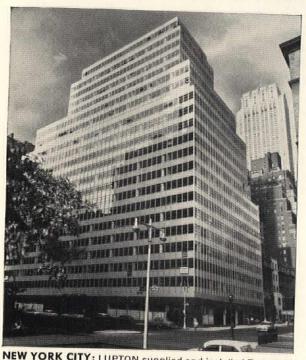
KELLOGG, IDAHO: Extreme climatic conditions (wind and dust storms; smoke KELLOGG, IDAHO: Extreme climatic conditions (wind and dust storms; smoke from a nearby smelter; a wide variance in atmospheric temperatures) made the selection of precisely-engineered weather-tight LUPTON metal windows unusually important at Kellogg High School. Ruggedness and simplicity characterize construction with these tight-fitting steel architectural projected windows. Architects: Culler, Gale, Martell & Norrie, Spokane, Wash.; Perkins & Will, Chicago, Ill. Photograph: Hendrick-Blessing.





BOULDER, COLORADO: 115 aluminum "Master" projected windows were installed on this handsome municipal building. These windows are attractive, yet functional, and require a minimum of maintenance. Architect, James M. Hunter, Boulder, Colorado.

Typical examples of modern buildings designed with LUPTON aluminum curtain-walls and windows



NEW YORK CITY: LUPTON supplied and installed Type "H" fabricated aluminum curtain-walls for this building at 300 Park Avenue. Mullions are aluminum tube with expansion joints at alternate floors. Non-insulated spandrels of opaque structural glass were used. Architect: Emery Roth & Sons.

North. South. East. West. All over America, architects are designing modern buildings with LUPTON aluminum curtainwalls and windows. And no wonder! LUPTON has 75 years' manufacturing experience and a reputation for reliability...for delivering parts on-time and as specified. And, whether you're designing a school, hospital, municipal building, or other, LUPTON construction offers you significant advantages like these: design freedom, lasting modern beauty, low cost installation and maintenance, and single-source responsibility.

Investigate all the important advantages of LUPTON construction. See SWEET'S (Sections 3 and 17) for the Michael Flynn Aluminum Curtain-Wall and Window catalogs, and write for further specific information. Inquire about LUPTON Comfort-Conditioning*—the new curtain-wall system that cools, heats, and ventilates. Ask for the new LUPTON brochure showing its application in modern motels. A call to the nearest LUPTON representative (see the Yellow Pages under "Windows—Metal") will bring fast action without obligation.

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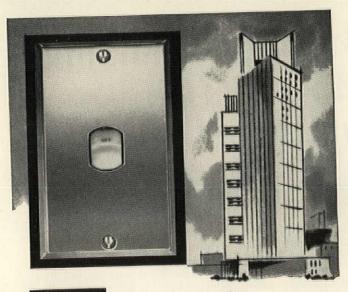
Main Office and Plant: 700 E. Godfrey Ave., Philadelphia 24, Pa. West Coast Plant: City of Industry, Cal. (Los Angeles County)



DES MOINES, IOWA: The striking beauty of the Memorial Chapel and Charles Medbury Hall, College of the Bible, Drake University, exemplifies the variety of design easily achieved with LUPTON construction. LUPTON Master Casements alternate with fixed glass in LUPTON Type "H" curtain-wall units. Architects: Eero Saarinen & Associates, Bloomfield Hills, Michigan.



(Continued from page 108)





the Switch of the Future



ready for your use NOW!



ROCKER-GLO

SWITCH

Many of today's switches are specialties primarily for decoration; some others are sturdily constructed for heavy duty performance. Now in one switch these two features are combined - P&S Rocker-Glo. Rocker-Glo's design and action are such that it can be pressed, pushed, rocked or rolled. It has the basic rugged mechanism that insures long, trouble-free performance. Eventually all light switches may have a rocker action - like Rocker-Glo.

Rocker-Glo switches are AC switches designed to be used at full current rating on tungsten filament and fluorescent loads (one switch takes the place of two ordinary AC-DC switches on fluorescent loads). It can be used anywhere old style toggle switches are used.

Rocker-Glo's clean functional lines and soft beauty blend with any decor and add a touch of gracious charm to any type of building.

Available in Despard interchangeable type, Despard type mounted on a strap and narrow rocker for tumbler switch plates. A specification grade switch, 15 and 20 amps. 120/277 volts AC.

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For more information, turn to Reader Service card, circle No. 305

"The building has a beautiful setting. It's a park already on the Potomac and obviously we would want to overlook that fine Potomac view. Already there is a wonderful landscaping tradition established in Washington with these great elms, and fine grass and shrubbery, and I think it should capitalize on nature's blessings here." 12 Will the building overhang the river?

"I think the possibilities are infinite and that will certainly be one thing we will explore. The possibility of a great terrace overlooking the Potomac-how adjacent would be conjectural-would be a thing to strive for."

Is What do you think of the architecture in Washington? "Naturally, I am living in the 20th Century and I would like to see the advances of the art of architecture in our country-and I do believe we lead the world in architecture -recorded in one of our great buildings here. In other words, I think this should represent so far as it can the indigenous talent and culture of our country. We have always been too modest about our cultural attainments, and I think this symbolizes our coming of age culturally. The building should express it."

Dallas Gets Commercial Center

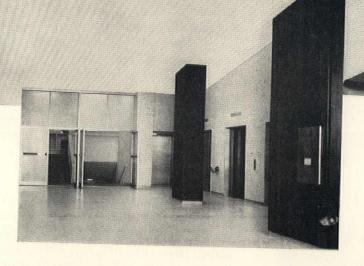
End walls and base of Dallas' Southland Center sparkle with quartz aggregate in precast, white concrete. Spandrels are glass mosaic. Architects: Welton Becket & Associates; Consulting Architect: Mark Lemmon; Structural Engineers: Murray Erick Associates; Consulting Structural Engineers: Edwards & Hjorth; Consulting Mechanical Engineers: Zumwalt & Vinther.





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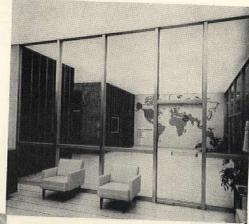


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Lobby of The Texas Company building, Los Angeles, California Welton Becket & Associates, architects



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Yoloy Conduit should be specified for electrical installations where corrosion is expected to be more severe than normal. Research has proved Yoloy resists corrosion 4 times longer than carbon steel in marine and industrial atmospheres.

Yoloy steels have proved highly resistant to corrosion in oil fields, coal mines, railroad cars, motor trucks and highway construction equipment for over a quarter-century. Long-time tests and actual installations have proved that Yoloy pipe lowers costs when used for salt water lines, oil wells, industrial installations and corrosive soils.

Corrosion studies conducted for 14 years in 13 different soils show that Yoloy has 19% less pitting and 36% less weight loss than carbon steel—and 10% less pitting and 23% less weight loss than wrought iron. This proved corrosion resistance greatly lengthens the life of coatings—galvanized or enameled—on Yoloy Conduit.

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will last four times
longer than openhearth iron.

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Expected life increase of Yoloy steel over carbon and wrought iron incorrosive soils. Studies were conducted over a 14-year period in 13 different soils.

Atmospheric corrosion tests held off the coast of New Jersey revealed Yoloy steel

O. H. IRON

YOLOY STEEL

......

CARBON STEEL PIPE

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CURTAIN-WALL SPANDREL DESIGN SIMPLIFIES CONSTRUCTION

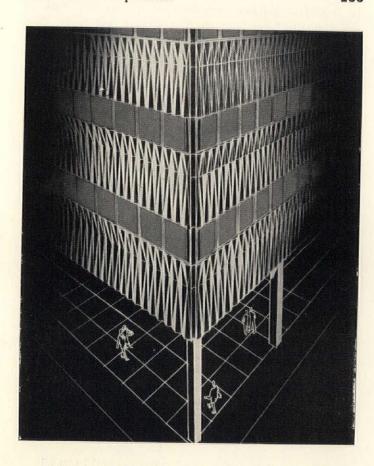
Proposal Eliminates Need for Structural Mullions

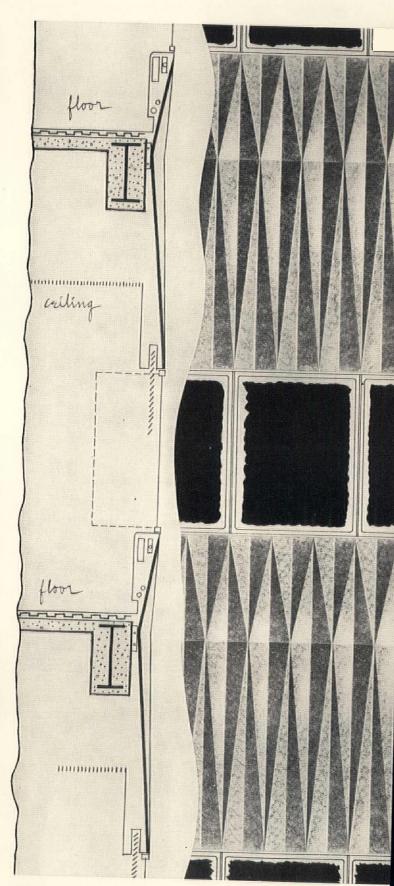
The vast majority of curtain-wall buildings erected today employ structural mullions to frame glass (window) and spandrel panels, and to transmit wind loads to the structure. A newly-designed spandrel by Walter Dorwin Teague for Sharon Steel Corporation eliminates need for mullions in window and spandrel areas, reducing costs and increasing flexibility in curtain-wall design.

Teague's system consists of panels of folded steel formed to cantilever up and down to glazed areas from small concealed clips anchored to spandrel beams. Stressed steel skin can receive lateral wind loads, over its own plus glazed area, and transmit them to spandrel beam and floor slab. Use of panel-to-panel seal would cause system to become completely self-flashing—eliminating, according to Teague, at least two trades from curtain-wall installation. In design of panels, Teague used "Sharonart," textured surface steel, which can be plated, metalized, plasticized, and painted in a wide range of colors.

Advantages of system are: (1) elimination of structural mullions; (2) use of any spacing of glass division and any kind of sash—for instance, reversible sash where sash meet each other with own gaskets forming only member between them; and (3) design of skin may permit space-saving provisions (right) such as below-sill mechanical space, and window-head blind pockets, beyond column-beam line.

Sharon Steel Corporation



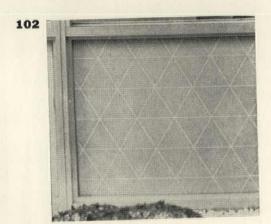


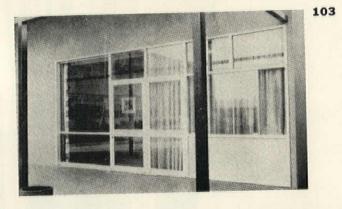
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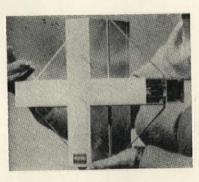


101









105



WALL ASSEMBLY PRODUCTS

Wall System Features Flexible Windows

"Fenwall" aluminum curtain wall system is designed on basic grid allowing highly adaptable ventilation arrangements. Numerous combinations of sash, including doublehung, casement, projected, top-hung inswinging, and hopper windows can be used without special extrusions, adapters, or exposed fittings. System also features negative pressure holding device. This holding mechanism keeps grid unit in place under unequal pressure conditions, yet allows for horizontal adjustment and expansion or contraction. Singlesource responsibility for system includes engineering, manufacturing, and assembly of all component parts at a factory. "Fenwall II" is custom wall without limitations on types, size, or arrangement of grid units. 101 Fenestra, Inc.

Tile Faces Curtain-Wall Panels

Hermosa "Triangle Tile" (shown in Arcadia Metal Products' new window wall, see JULY 1959 P/A, p. 93), finds new use as spandrel panels for window wall construction. Many effects are possible with wide range of colors available in tile line. Permanence of colors, together with easy maintenance of Hermosa's "Dura-Glaze" finish, reportedly provides longrange economy.

Gladding, McBean & Company

102

System Designed for Low-Rise Buildings

All-aluminum "Ador-Wall" is designed for one, two, and three-story buildings of wood frame, steel, concrete, or masonry construction. Horizontal windows and vents are free of obstructions. Basic 2"x4" mullion system is used throughout. System is designed for custom fitting and sizing to individual building requirements; utilizes any type of panel ranging from 3/16" to 3" thickness, and single, dual, and triple glazing. 103 Ador Corporation

Wall Sections Allow Design Versatility

"HV Trimline" dry-glazed wall construction system features horizontal and vertical members which allow architect to place emphasis where he wants it: horizontally, vertically, on exterior, or on interior. Basic components are aluminum extrusions containing keyed-in vinyl glazing strips. When framework is installed and glazed, vinyl compresses against glass or panel for positive and permanent resilient seal. "Perimeter Weather Bar" anchors and weather proofs perimeter of installation with compression seals. Variety of face members and snap-in back members gives wide choice of glass line locations and design variations.

American Art Metals Company

104

Sealant Blends with Curtain Walls

Curtain-wall and building maintenance sealant is especially designed to blend with light-colored masonry materials such as marble, limestone, and concrete. "Weatherban" off-white sealer provides excellent adhesion to above materials plus metal, glass, porcelain, wood, and other standard building materials. When mixed with curing agent, sealant chemically cures in place to produce solid rubber seal with superior flexibility, aging, non-flow, non-shrinking, and non-cracking

Adhesives and Coatings Division

Minnesota Mining & Manufacturing Company

105

Wall Blocks Are Three-Dimensional

Modular block of cast concrete designed by Austrian sculptor Erwin Hauer recently won a Design Award from Industrial Designers Institute. Blocks may be used to create exterior-interior walls, space dividers, and light-diffusing screens. Open, three-dimensional character provides constantly changing effect, depending on angle of vision and changes in direction and intensity of light. Shown is application of blocks at Vassar College Language Center, designed by Paul Schweikher and Winston Elting. Murals, Inc. 106



Large Plastic Curtain Walls Developed

Wasco office building, Cambridge, Mass., by The Architects Collaborative, uses 144" GP Acrylite panels for both exterior skin and interior panels. Panels are said to be world's largest cast acrylic sheets, available in sizes up to 144"x100". Thicknesses range from 1/8" to 1/4". May be formed in diamond shape as illustrated, or framed in metal. Also available with decorative embedments in maximum sheet size 36"x72"x1/8" or in thicknesses up to 2" on custom basis. Wasco Products, Inc.

Building Panels Have Clean-Lined Look

Design of Hillsdale High School, San Mateo, Calif., by John Lyon Reid & Partners of San Francisco, utilizes "Cemesto" building panels. Units consist of laminated sheets of Celotex insulating fiber board to which cement asbestos facings have been bonded with moisture-proof adhesive. Panels posses high insulation value and structural strength. Cementasbestos facings are wear, weather, and fire-resistant, and combine readily with other contemporary building materials. Metal battens with built-in neoprene gaskets aid in attachement of panels to modular-spaced steel framing. The Celotex Corporation 108

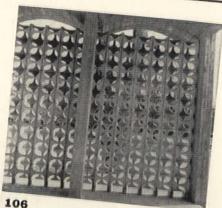
Panel Wall Has Horizontal Sliding Sash

Window-wall unit known as "Sapphire Panel Wall" incorporates horizontal sliding sash. Individual sliding sash units containing panels are mullioned together to form walls for onestory buildings. Weight rests on sill, rather than being carried on mullions. Materials which may be used for infill panels include porcelainized steel, mosaic tile, and opaque glass. System can have "U" insulation factors exceeding those of 16" masonry wall. Company also produces "Sapphire Curtain Wall" for multi-story buildings. Peterson Window Corporation

109

Limestone Available for Spandrel Panels

Insulated, thin, and comparatively lightweight limestone panel has been developed for use as spandrel panel in curtain walls. Panel is 4" thick, composed of 2" limestone backed with 2" insulation. Inner surface of insulation is protected with asbestos-cement board or metal pan, depending on type of insulation, code requirements, and appearance (if surface is left exposed). Limestone is cut











pla news repon: products

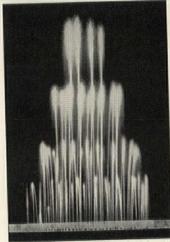
to size and insulation and backup applied in factory ready for installation on job site. Mortarless and waterproof installation is achieved through use of neoprene, thiokol, and calking.

Indiana Limestone Company

110

Fountains Add Excitement to Open Areas

Water-display fountains can be used imaginatively to enliven landscaping and add interest to façades of buildings. "Symphony" (shown) consists of 71 spray jets, in four tiers, individually regulated to desired heights. Comes with brass



fitting valves and #4 pump. Price: \$332. Also available are "Rainbow" (21 spray jets, #2 pump; \$119); and "Plumes" (58 spray jets, four tiers, #3 pump; \$265.33). Custom designs also made.

Canal Electric Motor, Inc.

111

Unique Styling Marks Juvenile Furniture

Lawrence Peabody has designed group of modular chests which may be stacked, or wall-hung by removing legs. Finished in walnut, cases have porcelainized ceramic pulls,



are 29" high, 34" wide, 171/2" deep. Sliding door storage chest has reversible doors, cane-paneled or enameled in bright color. Bench shown is storage box with seat supported by friction hinge to protect child from falling lid.

Child Craft Division

Smith Cabinet Manufacturing Co., Inc.

112

Curtain Walls Have Black Matte Finish

Self-contained curtain walls using black matte stainless steel are complete with window frames, spandrel and column panes. Sandwich-built spandrel panels consist of textured stainless steel outer sheet, impregnated asbestos honeycomb core, and aluminum backup sheet. Panels are colored

by Permyron permanent metal surface-coloring process. Units are 13' high by 5' wide, weigh less than 150 lb exclusive of glass. Window glass installs separately. Current installation is New York's Union Carbide Building, by Skidmore, Owings & Merrill.

Union Carbide Corporation

Real Gold Added to Curtain Wall Product

"Goldtex" curtain-wall spandrel material has 22-karat gold applied to raised or bossed parts of textured metal base which has first been processed with colored porcelain enamel. Same fabrication principle applies to "Colortex," with exception that porcelain enamel provides secondary color in lieu of gold.

Wolverine Porcelain Enameling Company

114

Recent Designs Announced for Panels

Custom-order line of reinforced fiberglass "Designer Group" debuts with three designs. "Florentine Lace" (shown) is silk screen lace design on woven natural fibre. "Our Town" is reproduction of cityscape drawing by Edward Wormley



done for Stimulus collection of Schiffer Prints; and "Venetian" is stained-glass motif on silkscreen rice paper. All designs embedded between fiberglass surfaces, and available in lightweight and structural gages. 115 Barclite Corporation of America

Danish-Designed Chairs Introduced

New additions to the Danish Craftsmen group are two new architect-designed armchairs of subtly-sculpted Oriental teak. Both the Kindt-Larsen chair and the one by Finn Juhl



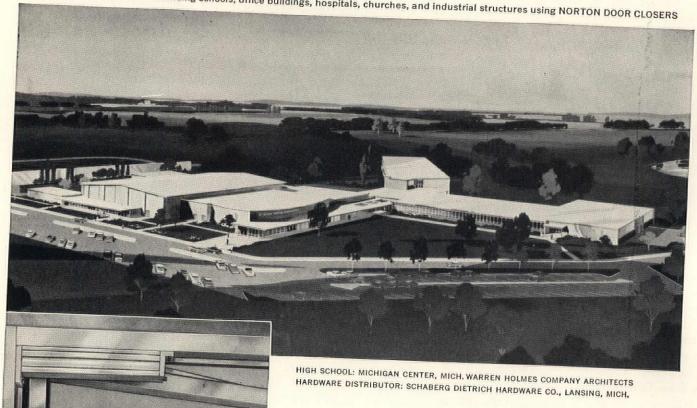
(shown) are available in linen, leather, Danish wool fabrics; with hand-rubbed oil or lacquer finishes. Chair shown (311/2" wide, 30" deep, 30" high) retails in muslin for approximately \$117.

John Stuart, Inc.

(Continued on page 122)

NEW-TYPE NORTON DOOR CLOSERS AN ARCHITECTURAL ASSET IN THIS MODERN MICHIGAN SCHOOL!

A continuing series of outstanding schools, office buildings, hospitals, churches, and industrial structures using NORTON DOOR CLOSERS



NORTON 750: A powerful corner-type closer of unique design that blends inconspicuously with top rail of modern metal-framed doors. Full rack-and-pinion mechanism handles doors up to 42" x 84".



Employs unique corner-type Norton Door Closers to complement clean-lined modern door design.

Thoroughly modern in appearance, this school is equally modern in every item of functional equipment, including Norton Door Closers. Of particular interest among the latter are the Model 750 cornertype Norton Door Closers used on principal entrance doors.

Model 750 was specifically designed to blend unobtrusively with the narrow rails and stiles so popular in present-day doors. The shell is extruded from a very strong, durable, 100%-seep-proof aluminum alloy. Arms are completely concealed when the door is closed. Full rack-and-pinion mechanism offers the ruggedness, dependability and precision workmanship common to all Norton Door Closers.

Other Norton models are available to satisfy every door-closer need. Write today for full information about all models, including the new Trimline series.

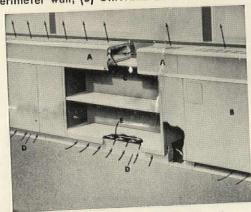
NORTON DOOR CLOSERS

Dept. PA-99, Berrien Springs, Michigan

(Continued from page 120)

System Provides Perimeter Cooling

"Wall-Line" perimeter air conditioning provides continuous flow of cool air along outside wall where most summer heat enters. Unit is said to circulate air in room evenly to eliminate "dead spots." Air-flow pattern in cutaway shows: (A) fans push air through ducts providing conditioned air along perimeter wall; (B) UniTrane air conditioner circulates



chilled or hot water, cooling or heating as it passes over coils; (C) 1/2" insulation resists temperature loss and also acts as sound deadener; (D) after air has circulated, it returns to be cooled or heated through air intakes; and (E) if partition is placed over spacer between units during change of partition arrangement, air would recirculate to UniTrane air conditioner by intake under shelves.

The Trane Company

New Pattern Added To Budget Vinyl Line

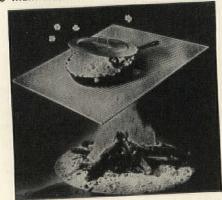
Non-directional pattern called Harvest uses gold and white on a base color with tiny glitter highlights. Available in 9"x9" tiles, color range of 10 colors, the tile is germ-proofed with Amti-Septic to prevent and inhibit the growth of

Amtico Vinyl & Rubber Flooring Division American Biltrite Rubber Company

118

Plastic Light Panels Are Non-Combustible

Non-combustible louver diffuser panels are completely nonelectrostatic, meaning they repel dust and dirt and require virtually no maintenance. Material reportedly will not sag,



buckle, warp, or bend, and is scratch resistant. "NC Gratelites" come in 24"-sq panels, have UL approval, with listed flame-spread rating of 25. Developed by Edwin F. Guth Company and Plastics and Coal Chemicals Division of Allied Chemical Corporation.

Edwin F. Guth Company

Prefab Curtain Walls Are Ceramic Faced

Ceramic-faced prefab curtain wall and partition units, for installation in standard or specially-designed framing system, are available in varied types to suit any requirement. Tile facings are furnished as selected or to specification—come in 79 standard colors for maximum flexibility in wall treatment, are available in mosaic patterns of geometric and abstract design, and in nine scientifically developed colors for functional application in industrial, institutional, and commercial installation. 120

The Cambridge Tile Manufacturing Company

Home Furniture Has Special Feature

Designed by Danish-born and trained Jorgen Hansen and Jens Thuesen, Futura collection of dining room, bedroom, and living room furniture includes chairs; bed tables and vanity with special fittings. Architectural simplicity and handsome restraint of rosewood double dresser with minzu



wood drawer fronts and white plastic pulls, thoughtful detailing of edges and legs, characterize the line. Of interest too, are more decorative bar (built-in lighting, hinged panels enlivened by a raised trefoil motif repeated like a sculptural relief); cases and tables combining rosewood with minzu or walnut and carpathian burl. 121

Romweber Industries

New Color Available In Glass Block

Color is now added to hollow glass block during forming process. New block has blue-green color chosen for its cool appearance and ability to reduce sun brightness and solar-heat transmission. Block is most effective when used on east and west exposures which receive strongest, most direct sunlight. Process enables blue-green glass and colorless glass to be drawn from melting furnace at the same time. Colored block available in 8" and 12" sizes. Kimble Glass Company, subsidiary of Owens-Illinois 122

Curtain Walls Have Asbestos-Honeycomb Core

Impregnated asbestos-honeycomb core for use in curtain wall panels has great compressive strength (125 psi) and rigidity. Material is reportedly resistant to temperature and fire, and is unaffected by humidity, water, and vermin. Available in two types: Type X for exterior curtain wall construction: Type I for interior partitions. Has wide range of uses in other applications. Can be tailored to exact requirements. 123

Nicolet Industries, Inc.

Featuring HOLOPHANE PRISMALUME® TOTALLY NEW!...Recessed 2-Foot Wide Luminaires...

Holoflux

Series 6400

The Only Luminaires Made with ALL these Advantages

For more information, turn to Reader Service card, circle No. 309

and produced by HOLOPHANE — with over six decades of experience devoted exclusively to lighting. (5): Great versatility; models for major, commercially available, ceiling types...(6): Completely designed recessed portion of luminaire...(4): Easy adjustment on irregular ceilings or in alteration work... for extra-durable service; no discoloration...(3): Supporting cross-members do not project above top of (1): Highest utilization of light; minimum brightness and glare...(2): PRISMALUME (crystal acrylic plastic)

Write for Engineering Data

draffing rooms, schools and other institutional buildings. porary interiors...stores, offices, terminals, showrooms, banks, lamps per section)...Distinctive design integrates with contem-Basic units are made in 4-foot lengths (2, 3 or 4 rapid start

Nos. 6420-6430; with Flat CONTROLENS® for unbroken ceiling lines Nos. 6400-6410: with Prismatic Border for ceiling illumination

n Two Lens Designs...



HOLOPHANE COMPANY, INC.

Lighting Authorities Since 1898

THE HOLOPHANE CO., LTD., 418 KIPLING AVE. SO., TORONTO 18, ONT. 342 Madison Ave., New York 17, N. Y.







Booklet shows and discusses outstanding curtain-wall applications of Trinity White Portland Cement in recent buildings. Curtain Walls and Facings, liberally illustrated with four-color photographs, includes installation shots and technical information. Among buildings shown is Southland Center in Dallas (a complex including Southland Life Tower and Sheraton-Dallas Hotel). Base of tower and end walls of tower and hotel (left) are of Trinity White Cement combined with quartz aggregate in low watercement ratio (procedure developed by Mo-Sai Associates). Architects for Center were Welton Becket & Associates; Consulting Architect, Mark Lemmon; Murray Erick Associates, Structural Engineers. Other buildings shown in booklet use Trinity White Engineers. Other buildings snown in buildings snown in panels totally white and in combination with gray and color. General Portland Cement Company (16-p.)

WALL ASSEMBLY PRODUCTS

Porcelain Enamel in Architecture

Booklet describes uses of porcelain enamel in curtain-wall construction, including its advantages: permanent colors, weather resistance, durability, ease of maintenance, possibility for varied textures and finishes. More than 20 installations are shown, some in full color, with curtain-wall details. Section on design factors deals with panel manufacture and erection. Partial listing of completed porcelain-enamel curtain-wall projects is given. Companion booklet is Porcelain Enamel in Architecture: Part I, Veneer-Type Construction.

Porcelain Enamel Institute, Inc. (AIA 17-A, 28-p.)

Neoprene Gaskets for Curtain Walls

Booklet presents case for a solution to problem of sealing glass and panels into curtain walls-compression seals of neoprene synthetic rubber. Results of hurricane tests and earthquake tests of product are given; and two notable installations-New York International Air Terminal and General Motors Technical Center-are shown in photographs and details.

Elastomer Chemicals Dept.

E. I. du Pont de Nemours & Company, Inc. (AIA 17-J, 12-p.)

Ceramic Veneer Color Guide

Four-color brochure provides color selection guide for architects specifying ceramic veneer for curtain wall and other uses. Colors were chosen by color consultant Faber Birren from products as manufactured by members of Architectural Terra Cotta Institute. Actual samples may be had on request from manufacturers listed in brochure. Architectural Terra Cotta Institute (AIA 9, 4-p.)

Editor's note: Items starred (*) are particularly noteworthy, due to immediate and widespread interest in their contents, to the conciseness and clarity with which information is presented, to announcement of a new, important product, or to some other factor which makes them especially valuable.

Modular Panel Systems

"Panelfab" building panel is stressed-skin sandwich composed of phenolic impregnated Kraft honeycomb core with interior and exterior facings laminated with phenolic resins under heat and pressure to form one-piece construction with high strength-to-weight ratio, torsional rigidity, and dimensional stability. Booklet shows details of construction and use of Panelfab for interior wall and roof applications. Panelfab Products, Inc., (AIA 17-A, 8-p.)

Wall Systems for High- and Low-Rise Buildings

Window unit of standard design serves as basic window unit for "Bayley System" in either curtain-wall or windowwall construction. Three designs in either vertical or horizontal assembly systems are illustrated in booklet: series 450 and 250 for curtain-wall buildings, in which windows, glass areas, and panels are mounted in a sub-frame; series 150 for window walls, where windows themselves form interlocked wall assembly. Details of various applications given. The William Bayley Company (AIA 17-A C-59, 20-p.) 205

Lightweight Insulating Cellular Concrete

"Cellcon" is lightweight insulating cellular concrete for core material in metal type sandwich panels and pre-cast concrete sandwich panels for curtain-wall construction, Currently being used in Executive House, downtown motel in Detroit, Cellcon is described in text and installation and detail photographs. 206

Cellular Concrete Corporation (AIA 37 B-1, 4-p.)

One-Piece Neoprene Gasketing

Entire perimeter of "Inlock" neoprene structural gasket is "fused into a continuous one-piece setting member." Booklet describes advantages of gasket, including ease of replacement of windows or panels. Installation and test data given, plus recent installations, numerous cross sections, method of glass or panel size determination, installation procedures, architectural details for various applications,

information on filler strips and installation tools, and order, warranty, and specification data. Also included is "doodle" page, given "to suggest a few other Inlock Gasket design

Inland Manufacturing Division General Motors Corporation

207

AIR AND TEMPERATURE

Convectors Gives Floor-to-Ceiling Comfort

Catalog describes Perma-Trim wall-to-wall continuous convector for large window area installation, combining high heat capacity of convector design with advantages of finned tube radiation. Unit may be installed directly beneath window sill. Incorporates I" O.D. tubes which eliminate stacking of heating elements within enclosure, resulting in lower installation costs. Features prevent wall streaking, take care of irregular wall surface problems. Available in sloping top outlet and face outlet types with full line of accessories such as end caps; extension sleeve corner pieces permit extension of total enclosure length to 12" at each end. Sizes: 4"x6" depths; 10", 14", 20", 26" heights; 3' through 8'

Modine Manufacturing Company (Bulletin 259-A, 12-p.)

Climate Control in One Compact Package

Folder shows components of air-conditioning package for use in buildings such as stores, restaurants, other types of service establishments—and for modernization of larger buildings where multiple units rather than central station installation, are preferred. Provides completely self-contained package, easy-to-install with or without ductwork. Available in water- or air-cooled models in sizes from 3 through 15 tons.

Acme Industries, Inc. (Catalog 571, 4-p.)

Packaged Heating Provides Zone Control

Brochure describes advantages of hot-water packaged baseboard heating system for homes, suited especially to splitlevel and ranch types, which provides independent thermostats to control individual living areas for the most efficient and comfortable heat distribution throughout home. Features include low installation cost, no wasted heat, simplified servicing. Drawings show inconspicuous appearance of baseboard system, how it operates, and method of installation.

Edwards Engineering Corporation (Brochure SLC-1, 8-p.) 210

Dry-Web Space Filter Offers Efficiency

Bulletin covers performance and construction details of Dustfoe space filter for air filtration in industrial and commercial fields including all types of processing and manufacturing plants. Certified to be at least 85% efficient on NBS Atmospheric Air Stain test, filter claims same efficiency as electrostatic precipitator without high cost and possibility of arcing "blow-off." Contains no moving parts, is not oiled; filter web in dry state effectively holds dirt. Unit has capacity of 1000 SCFM. Stocked in 231/2"x231/2"x57/8" size fitting into 24"x24"x8" frame—available in other face

sizes. The 51/8" depth remains constant. Installation details included.

Mine Safety Appliances Company (Brochure 1505-6, 8-p.)

Gas-Fired Intake Units

Bulletin describes series of gas-fired intake units for supplying outside air to replace air removed by industrial exhaust systems, which achieve nearly 100 percent combustion efficiency by burning natural or propane gas in line-of-flame burner directly on entering airstream. Can be mounted on roof or in wall opening and used with or without duct systems for air distribution. Units are made up to specifications from 2, 4 or 6 million BTU per hour, with air volumes of 25, 50 and 75 thousand CFM. Available with fan and accessories to meet requirements.

Hartzell Propeller Fan Company (Bulletin A-115, 2-p.) 212

Heater Solves High Ceiling Heating

Bulletin covers features of high-ceiling downflow gas heater designed for efficient heating from as high as 40' above floor level. Heater is direct-fired, consists of duct furnaces with automatic controls, propeller-type fan assembly, and screened, bell-mouthed intake boots, louvers that adjust to distribute heat to specific areas or for spot concentration. Standard specifications include aluminized steel heat exchangers and on-off gas valves with 115 or 230-v controls. Available in four basic sizes from 300,000 to 600,000 BTUH -may be installed in multiples for greater capacities. A 4-way diffuser for hemispherical distribution over a wide area is also available.

Reznor Manufacturing Company (4-p.)

213

CONSTRUCTION

209

Moistureproof Insulating Structural Panel

Folder describes construction of Transitop 4'x8' wall panel which consists of integrally impregnated insulating board core faced on both sides with special noncombustible asbestos-cement board, bonded with colorless waterproof adhesive. Combines unusual structural strength, high insulation, maintenance-free interior and exterior finish in a single fire-resistant panel that is easy to apply over wood or steel framing. For general building construction and general commercial and industrial applications. Comes in natural gray with high light reflection. Table of physical properties, detail drawings, photos included. Johns-Manville Corporation (8-p.) 214

Control of Industrial Vibration, Shock, Noise

Booklet gives engineering specifications and performance data for 27 types of products for control and measurement of machinery vibration, shock, and noise. Contains detailed discussion of relative merits of steel springs and organic materials as isolation media, selector chart covering wide range of equipment showing recommended and alternate methods of isolation; also indicating when concrete foundations are necessary. Actual installation photographs show

(Continued on page 128)

Another D & H First! THE SLIDING (U-H)



Pyrollor®







WHY D& H SLIDING PyroDors ARE OUTSTANDING-

- CONTEMPORARY FLUSH DESIGN, SMOOTH LOOKING, Interlocking Panel Sections.
- SOLID MINERAL CORE - the same proven construction as the D&H Swinging PyroDor.
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WRITE FOR NEW D&H SLIDING PyroDor CATALOG - DHSL-60. D&H Dealers are located throughout the United States -Consult Sweet's Architectural File, the "Yellow Pages" or write direct.

The Industry's Most Complete Line Of FLUSH DOORS STEEL • ALUMINUM • VINYL-ON-STEEL • WOOD

STANDARD FOR 60 YEARS -

UNSIGHTLY HEAVY HARDWARE

ROPE, PULLEYS, TRAVELING

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WEATHERBAN

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can't blast through the seams of this glass panel tank.

The test above proves the toughness of 3M's new WEATHERBAN® Sealer. Shows why curtain wall construction can be lightweight, leakproof!

WEATHERBAN Sealer adheres strongly . . . cures without shrinkage to a durable, solid rubber seal that flexes,

ment. And during winds as high as 140 stone and metal installations. mph by actual test, it cushions glass to guard against breaks and cracks.

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Consult 3M Research. Contact your 3M Field Engineer. Or for information and free literature, write on your com-



pany letterhead to 3M, A.C.&S. Division, Dept. YD-99, St. Paul 6, Minn.

ADHESIVES, COATINGS AND SEALERS DIVISION

MINNESOTA MINING AND MANUFACTURING ... WHERE RESEARCH IS THE KEY TO TOMORROW





For more information, turn to Reader Service card, circle No. 312

p/a manufacturers' data

(Continued from page 125)

variety of equipment, how typical problems have been

The Korfund Company, Inc. (Bulletin K4E, AIA 39D, 8-p.)

Building Products and Services

Technical manual is divided into six separate catalog sections detailing engineering data and specifications for each of the following commercial building elements: metal curtain walls, metalclad fire walls, rolling steel doors, electrified M-floors, long span M-decks, steel roof decks, acoustical and troffer forms, acoustical ceilings, structural steel, steel plate components. Diagrammatic drawings and photographs accompany text; section with construction details for drafting room use is included. 216

The R. C. Mahon Company (100-p.)

Suggested Ideas for Design with Redwood

Data sheets suggest ideas for uses of redwood. Redwood Ceilings contains material covering variety of ceiling designs, examples of redwood plank-and-beam construction. Redwood Grillework displays examples of redwood used for grills, screens, louvers, and dividers. Most recent revision of Garden Redwood-has as primary change the inclusion of new RIS grademarks. 217

California Redwood Association (8-p.)

Color in Movable Metal Partitions

Presentation contains comprehensive data on line of versatile Mobilwall movable metal partitions to suit every layout requirement including office, school, hospital, etc., now available in enduring Permacolor finish, in full range of colors. Company service includes free planning help and



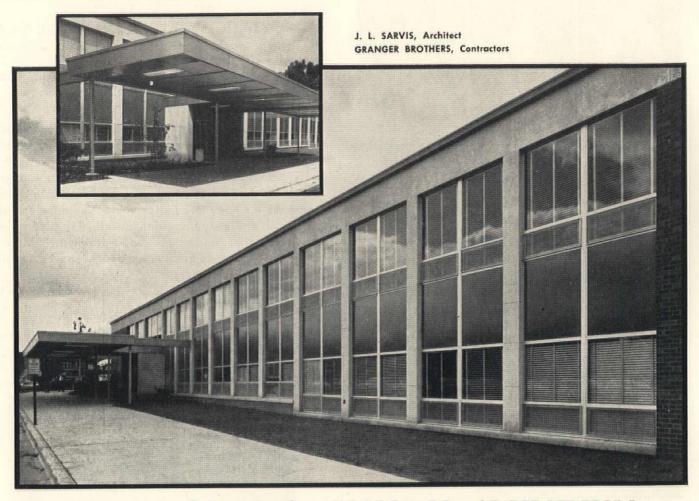
follow-through with field installation by factory-trained crews. Also continued rearrangement service, and continuous "open-stock" supply of interchangeable units and accessories for additions or replacements. Photos of existing installations, detail drawings, index of partition types and accessories, included.

Virginia Metal Products, Inc. (AIA 35-H-6, 60-p.)

218

Craftsmanship in Concrete

Data sheets contain comprehensive information on mixing and application of concrete in cold and hot weather conditions. Sections deal with causes of cracking, dusting, and (Continued on page 130)



America's Architects select VAMPCO ALUMINUM WINDOWS, Curtain Walls and Entrance Doors for Modern Homes, Schools, College and Commercial Buildings

The attractive new Kellogg Center at Michigan State University, Lansing, Michigan (pictured above) has Vampco 2000-series 2" Aluminum Curtain Wall fenestration and Vampco Aluminum Entrance Doors. It is a fine example of how architects and builders are using Vampco Aluminum Windows, Curtain Walls and Entrance Doors to provide modern, streamlined beauty . . . functional design . . . structural strength and durability. This is one of over 12,000 schools now using Vampco Aluminum Windows.

Vampco Aluminum Windows for every type of construction are available in casement, combination casement, awning, intermediate projected, curtain walls of varying sizes and thicknesses, heavy ribbon, window walls, glass block and custom designed types. Vampco also manufactures a complete line of Aluminum doors, frames, side lights and transoms. For complete illustrated literature, mail coupon below, *today*.

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21 Spray Jets. Complete with Brass Fittings, Valve, and model #2 Pump.

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If our stock units are not adaptable to your plans, we will custom build to your specifications in any form, shape, size or to scale. Please submit blueprint, sketch or simple drawing. We will make recommendations and estimates

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For more information, turn to Reader Service card, circle No. 314

TO 2,000,000 HOT WATE B.T.U. HEAT . 40,948 B.T.U. to 2,000,000 B.T.U. Out-· All units meet the re-

quirements of the ASME Boiler and Pressure Vessel Code.

PRECISION THECTRIC HOT WATER HEATING BOILER

- · Complete unit ready for installation with circulating hot water system and water chiller for year-round air-conditioning
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- Every unit tested and inspected.

Write for color brochure and prices.

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No ducts! No noise! No chimney! No odors! No flame!

For more information, turn to Reader Service card, circle No. 315

p/a manufacturers' data

(Continued from page 128)

crazing, show how these failures can be avoided. Drawings illustrate step-by-step procedures to follow to obtain a weather- and use-resistant concrete surface.

Alpha Portland Cement Company (4 bulletins)

219

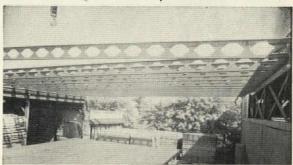
Factory-Assembled Window Wall

Brochure covers line of window wall systems for use in institutional, industrial and commercial buildings, claiming savings to 40% in erection costs where factory-assembled units are utilized. Constructed of heavy-duty aluminum engineered for strength, with integrated horizontal gliding aluminum windows. In addition to factual data and specifications, a cutaway isometric illustration of a typical window wall section, quarter size detail drawings, illustrations of typical arrangements showing design and construction flexibility, are included.

Whizzer Industries, Glidorama Division (AIA 17-A, 6-p.)

Steel Beams Speed Construction

Folder gives specifications, details and properties of lightweight Diamond Span-R beams, designed to support floors and roofs over long and short spans between beams, walls



and girders in all types of structures. Open-web structurals offer advantage of fast construction, are completely fabricated, ready for immediate placing; eliminate complicated bridging, readily accommodate ductwork and conduits, are fire-, vermin-, and sound-resistant. Esthetically pleasing when used as exposed members.

Elizabeth Iron Works, Inc. (AIA 13-G, 6-p.)

221

ELECTRICAL EQUIPMENT, LIGHTING

Geometric Shapes in Danish Fixtures

Catalog illustrates line of imported Danish lighting fixtures which form co-ordinated group of ceiling fixtures, wall



brackets, desk, table, and floor lamps. Ingenious designs derive from four elements of basic geometrical shape. (Continued on page 132) National first place award winning H. I. C. Home in Eugene, Oregon, is pictured below. Par-TILE was spe-cified.

Wall to Wall



Above: St. Paul school and church. Below: Typical Par-TILE office installation



Par-TILE now used in homes, schools, office and industrial buildings, hospitals, hotels, apartments, motels, restaurants, gymnasiums and dance floors.



Manufactured by Pacqua, Inc. Dillard, Oregon

DENSIFIED

OAK

MAPLE

Perfected through years of scientific research.

NATURAL WOOD BLOCK FLOORING

Architects, builders, engineers and designers are now specifying beautiful new Par-TILE natural wood block flooring in all type constructions. Par-TILE's density of 55 lbs. makes it extremely durable and highly resistant to wear, yet is resilient and easy to walk on. Will not dent under heavy furniture . . . Truly the finest floor in the world.

mar and stain resistant

practical floor of all

- lifetime wear
- · economical · pre-finished
- available in densified fir maple and oak
- flexo-grid scored back
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 standard size
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 (other sizes available on special order for industrial uses.)

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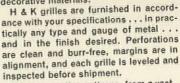
Please send free brochures. Free Samples. Please have your nearest representative contact us.

Address City State I am an architect builder engineer other.

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Perforated Decorative MATERIALS (Send for Catalog 75)





H&K decorative patterns, from a vast selection of existing dies, are serving architects in many new and unusual ways. If your plans call for perforated materials, depend on H & K!

See Sweet's File-30f/Ha







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New York Office and Warehouse 114 Liberty St., Dept. PA New York 6, N. Y.

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DUSO COST CONTROL SURVEYS

RECOMMENDED FOR:

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JOLIET, ILLINOIS

For more information, turn to Reader Service card, circle No. 318

p/a manufacturers' data

(Continued from page 130)

Available in all plastic, or combination of white acrylic plastic and lacquered mat sprayed metal in the following colors: black, mustard, coral and sand—smooth surfaced plastic provides clear, soft light, does not discolor. Many fixtures can be made for pulley suspension, wall mounting, or special groupings, and custom-made chandeliers can be ordered to specification.

Architectural Lighting Corporation (44-p.)

222

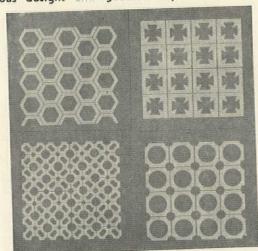
SPECIALIZED EQUIPMENT

Master Television Antenna Systems

Manual, Recommended Practices For the Design and Installation of Master Television Antenna System, points out need for including plans for television systems in original designs-details criteria for antennaes, amplifiers, and distribution. Comprehensive diagrams are included, showing types of systems that may be encountered in design. Various examples of system design are illustrated, and appropriate and necessary tables are supplied. Entron, Inc. (6-p.)

Solar Screens in Lasting Color

Bulletin illustrates ceramic veneer open grill solar screens in various designs and geometric patterns, available in



wide range of enduring colors. In addition to standard units illustrated, grills may be ordered custom-made, at slightly higher cost.

Federal Seaboard Terra Cotta Corporation (4-p.)

SURFACING MATERIALS

Specifications for Ceramic Wall Tile

American Standard Specifications for Glazed Ceramic Wall Tile, Ceramic Mosaic Tile, Quarry Tile and Pavers, Installed in Portland Cement Mortars, including requirements for related divisions, approved by the American Standards Association, supersedes Tile Handbook originally issued in 1951. Participants in preparation were manufacturers of ceramic tile in U.S., working in co-operation with representatives of AIA, Bricklayers, Masons & Plasterers International Union, tile contractor associations, other related industries in this country. Approved by ASA. Specifi cations do not include installation of ceramic tile with adhesives or with new dry-curing mortars—latter re in process of revision for near future issue. 225

Tile Council of America, Inc. (28-p.)

Now...Choose from 3 basic Wayne gymnasium seating systems to meet your budget

Match your seating to your dollars and save. Choose from a complete line by the world's largest manufacturer of spectator seating.

With economy as the watchword in today's new school construction, it will pay you handsomely to look into the only line of gymnasium seating that offers a choice of three budget ranges . . . an outstanding, efficient seating system for each! Every Wayne model is engi-

neered with the important attention to detail that assures longer life, smoother performance, lower maintenance costs . . . more seating efficiency for your money! Check these three Wayne values before you decide on any seating at any price! Write for catalog data today!



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WAYNE MODEL 70 ROLLING GYMSTAND

Continuous-seating, automatic power operated stands! Seat and foot boards in one unbroken sweep of magnificent mahogany or Douglas fir . . . one gymstand the length of your gym. This advanced Wayne design uses every inch of seating space, increases capacity up to 10%. Fully automatic; glides open or closed at the flip of a switch. This Wayne exclusive is installed in some of America's finest schools.



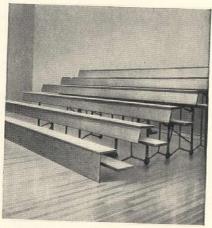
OPENED



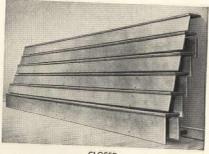
CLOSED

WAYNE MODEL 50 ROLLING GYMSTAND

Big favorite in value-packed luxury seating, the model that made the Wayne name famous in spectator seating. Features include: Wayne vertical front design, smoother, easier operation, uniform load distribution, completely closed risers, fine woods, finished to a rich lustre, and other Wayne engineering advantages. Feature for feature, dollar for dollar, this is truly the champion in conventional gymnasium seating.



OPENED



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WAYNE MODEL 30 FOLDING BLEACHER

Another Wayne exclusive! Folding Bleachertype seating engineered from the wheels up type seating engineered from the wheels up for long trouble-free life, easy operation and maximum seating. Enameled steel, diagonally cross-braced rock-solid understructure, gleaming finished woods. Investigate the Model 30 now and let us show you its dollar-in-hand savings over any price quotation offered you on any folding bleacher anywhere.

WAYNE IRON WORKS, WAYNE, PA.

ROLLING GYMSTANDS FOLDING BLEACHERS

FOLDING PARTITIONS

BASKETBALL BACKSTOPS .

OUTDOOR PERMANENT GRANDSTANDS . PORTABLE BLEACHERS



CHEMICAL NEWS for designing people

Products of the chemical industry are becoming increasingly important to good design and construction in the building field. To architects, no less than to builders, these products are essentially tools of design whose use makes construction and maintenance easier or more economical, or provides new benefits. This report is one of a series designed to give architects a quick look at some of the most modern of materials, and how they fit modern design needs.

SCORBORD PRESCORED TO SPEED UP BUILDING TIME

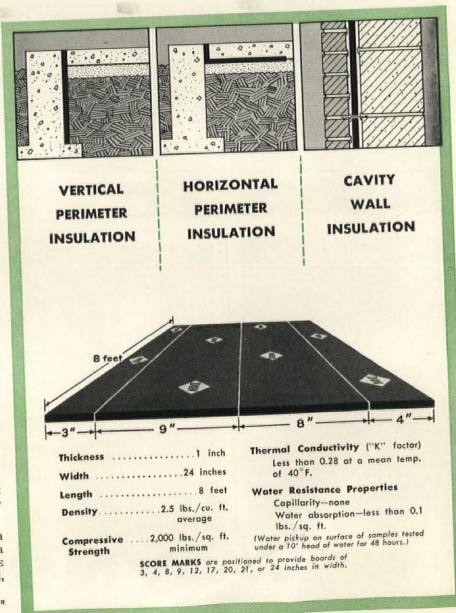
Here's how to cut up to 80% off fitting time when insulating foundations and slabs . . . and get permanent high insulating efficiency with unyielding resistance to water and moisture.

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Scorbord is especially designed for use along the edges of concrete slabs and foundations, as well as in cavity walls. It is a polystyrene foam containing millions of tiny non-interconnecting air cells. The cell walls provide permanent high resistance to the passage of water and moisture vapor, and have no food value to attract insects or vermin. This new construction material has unusually high compressive strength (over 2000 lbs. per sq. ft.), and weighs only 34 pounds per 8-foot board-less than any other commonly used rigid insulating material.

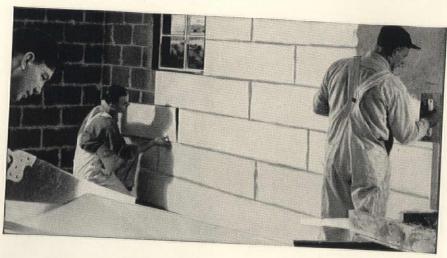
ARCHITECTS - For more information about Scorbord or for copies of a Sweet's catalog insert, write to THE DOW CHEMICAL COMPANY, Midland, Michigan, Department 1603EB9.

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Insulated masonry . . . lower heating costs with Styrofoam®

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Pipe covering made of Styrofoam reduces heat transfer and eliminates condensation and dripping because of high permanent insulating efficiency. It's easily installed, stays trim and attractive without maintenance, and resists rot and mildew. On low temperature piping, Styrofoam won't crack or split under extreme cold, or where temperatures change rapidly. There's a complete line of pipe and vessel covering available for every use, made from versatile, high efficiency Styrofoam.



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SARALOY 400 flexible flashing— This new flexible flashing material is easy to cut and fit, easy to contour to any shape under low heat. It expands and contracts with the surface to which it's bonded, seals permanently and completely. It won't cor-rode, check, crack or peel. Can be painted with regular exterior paints.



LATEX PAINT ideal mate for plaster—Latex paint is used over even fresh plaster because it resists alkali, mildew and mold. Latex paint's first coat serves as both primer and sealer—no separate prime coat needed. Dow supplies latex to the nation's leading paint manufacturers.

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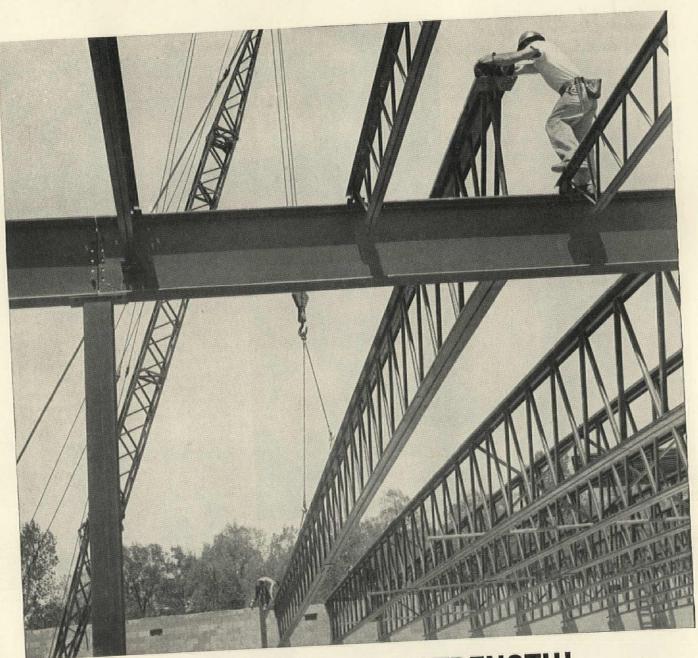
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Looking Forward to October PROGRESSIVE ARCHITECTURE

TRENDS IN HOSPITAL PLANNING

OCTOBER P/A will examine—in presentations of two recent health structures and three outstanding student project theses (from Yale and Carnegie Tech)—the state of planning for health facilities in the U. S., and what trends are likely to become apparent in this field in the future. The completed buildings to be presented are: Rehabilitation Center, Stamford, Conn., by Sherwood, Mills & Smith; and Fisher-Titus Memorial Hospital, Norwalk, Ohio, by H. E. Beyster & Associates, Inc., Architects-Engineers.

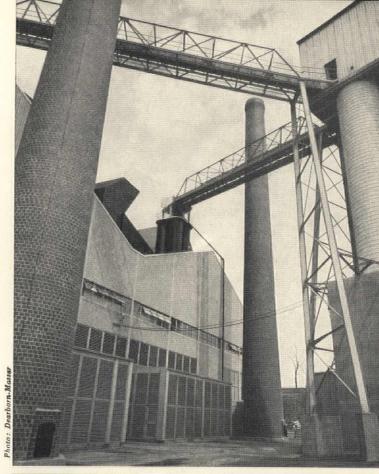
THE ARCHITECT & HIS COMMUNITY: JYRING & WHITEMAN

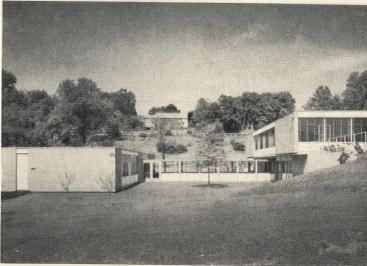
The next in P/A's Architect & His Community series will be devoted to the practice of Jyring & Whiteman, Hibbing, Minn. Situated in the midst of the ore-rich Mesabi Iron Range, this firm has a continually-expanding practice currently doing projects worth approximately \$6 millions. Included in the 12-page article will be examples of the firm's designs for public buildings, schools, and religious buildings.

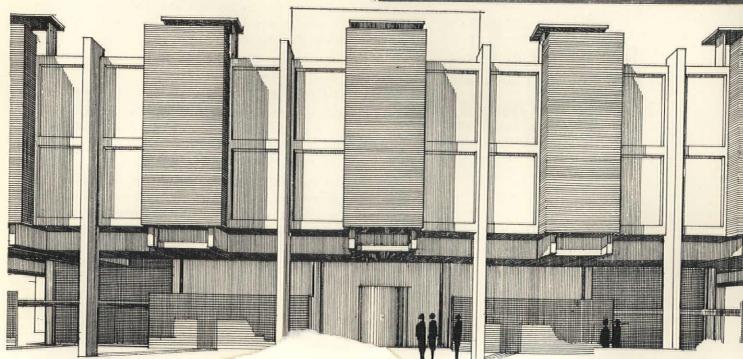
THE NEW SENSUALISM II

P/A's critique of the "sensualist" trend in American architecture—began in the current issue—will conclude in October. This examination of a subject of interest to most architects should stimulate a great deal of new thinking on this important topic.

Interior Design Data in October will document two clinics. One, by Robert Billsbrough Price, is in Puyallup, Wash., the other, by Thorshov & Cerny, in Watertown, S. D. Materials and Methods articles will be concerned with air heating and ventilating of classrooms, museum lighting, and more of the imaginative structural concepts of Paul Chelazzi (including proposals for a 300-story skyscraper).











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