"Main Place," the multilevel center proposed as catalyst for the redevelopment of Dallas by Columbia study.

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DALLAS, TEXAS In a move to revive the deteriorating western section of the Dallas central business district through private enterprise, W. W. Overton, Jr., Chairman of the Board of the Texas Bank and Trust Company of Dallas and Chairman of the Research Committee of the Central Business District Association, has financed a study by a faculty/student team at Columbia University's School of Architecture for an immediate and long-range future plan for the city.

The initial redevelopment section, or “catalyst,” for the larger downtown redevelopment is a four-block, 9.75-acre area owned by the Overton and Murchison families and nine other holders, who are now being asked to join in promoting the enterprise. The Columbia plan thus expresses itself in three elements: “Main Place,” the four-block catalyst (p. 65), to be completed in one to 10 years; the “reaction” section of 36 blocks, to take shape in five to 20 years; and the eventual renewal of 60 downtown blocks, ranging from 15 years on. The provision of facilities is arranged around corporate management, finance, retailing, and government. Concepting of real estate as volumetric rather than planar, the Columbia group developed a plan that vertically “stacks” different activities and services, and separates not only pedestrian and vehicular traffic, but also different kinds of motor traffic.
Site of the eventual 60-block area is within a soon-to-be-completed expressway loop. To this existing facility, the Columbia plan adds an inner ring distributor road and a system of interchanges and feeder streets to service the CBD.

The multilevel spine system, which is the heart of the plan, consists of a linear plan with activities segregated vertically. Main Place contains six levels. The lowest, two levels below ground, is for storage and movement of trucks and long-distance buses. The second is for long-term flat parking. At existing street level, movement of passenger cars, taxis, and shuttle buses takes place. Here also is ingress and egress to the pit parking system. The next two levels are for pedestrians, arranged around a great central square, "Dallas Square" (p. 67). The sixth level has recreational facilities. Above this rise two office towers, a motor hotel, and a museum. From this nucleus in the 36-block "reaction" phase would extend another motor hotel, two more office buildings, four apartment buildings, a large retail development, and a performing arts center. The central spine would be carried to the county buildings.

A significant element in the separation of the "travel container" and the human being, and in the conservation of precious space, is the unique pit parking system. The system is automatic and requires only 47 sq ft per car as compared to 400 sq ft for flat parking. There is a pit for 680 cars in the middle of each block of Main Place, approached at street level. The conveyor cycle of the system is 30 minutes, so the driver can retrieve his car every half hour from the time he puts it in. In combination with the 1000-car flat parking, the pit parking system accommodates 4000 cars in less than 10 acres with complete separation from the pedestrian.
Surrounding Dallas Square in the initial development area are, on the main pedestrian level, specialty shops and stores, the lobby of the department store, and service offices such as ticket offices, banks, and savings and loan firms. The motor hotel is reached via pedestrian walkways. On the upper pedestrian level are additional shops of the type that people will seek out, and the first floor of the department store. The recreation level contains bowling alleys, the motor hotel’s swimming pool, generous pedestrian areas, and the second floor of the department store. Above the department store is the two-story museum, providing 22,500 sq ft of enclosed space. In addition to the exhibition space, the museum has a lecture room and a restaurant (there is a larger restaurant in the department store). Atop the museum is an open-air theater seating 750.

The 60-story office towers rise across from the museum, and are divided into four “zones” of 15 floors each. Each zone is served by its own elevator and mechanical core, a relationship expressed on the exterior (pp. 65, 68). Structure of the building also is expressed by corner columns, which diminish as the building rises. The second 15-story zone forms a bridge between the two towers, and creates larger single-floor rental area for clients who are in need of some additional space.

The ultimate, 60-block redevelopment area would contain expanded and updated facilities for two of the section’s present industries: the garment trade and printing. There would be a transportation center, and middle-income housing and housing for the elderly is planned over underground warehouses. Throughout the entire scheme would run the central spine.

The Columbia team that worked on the Dallas plan included, from the faculty, Dean Charles R. Colbert, Economist Ernest M. Fisher, Urban Planner Stephen Carroll, and Designer-Critic Key Kolb. Students of architecture participating were Aaron Daniel, John D. Davison, Onhan Erdil, Gerald Exline, Friedrich St. Florian, James Patterson, Howard C. Pederson, Robert G. Price, Robert J. Reilly, Jack Solka, William Todd Springer, and Carlisle Towery. Students of planning were Noor Ahmed, Neil Robert Berzak, Stanley Ronald Friedman, and Peter Garrison.
PERSONALITIES

If the professional activities of its new president are any indication of what the compelling interests of the Institute will be in the coming year, the AIA can expect a strong emphasis on design and planning for education under the leadership of Henry Lyman Wright. For the past 30 years, his firm, Kistner, Wright & Wright of Los Angeles, has been responsible for the design and construction of more than 2000 schools. Wright himself has served on school building committees for both national AIA and the California Council of AIA; has spoken on the subject before many professional and school groups; has served as consultant to the school districts of New Orleans and Tucson; and even has had a school named after him—the Henry L. Wright Intermediate School, in Norwalk, California.

Born in San Diego in 1904, Wright attended San Diego State College, the Southern Branch of the University of California, and the University of Southern California, plus taking a study tour of Europe under the direction of the USC College of Architecture. In 1922, while still in college, he worked as an office boy in the firm of T. C. Kistner, becoming a partner of Kistner, Wright & Wright in 1941. (This year, he can celebrate his fortieth anniversary in the same office.)

For a dozen years, Wright has been officiating in local, regional, or national AIA. He has been president of both the southern California chapter and the California Council. He served as second vice-president of the national organization in 1958-1959, and has been first vice-president since 1960.

At this month's convention, AIA will bestow Honorary Fellowships on men from eight countries: J. H. Van Den Broek, Netherlands; Amancio Williams, Argentina; Hector Mestre, Mexico; Steen Eiler Rasmussen and Arne Jacobsen, Denmark; Hernan Larraín-Erazuriz and Emilio Du-Hart H., Chile; Jèrèzy Heinekenski, Poland; Ngo-Viet-Thuy, Vietnam; and John B. Parkin, Canada.

City planning head James Felt received the Public Service Award from the Citizen's Housing and Planning Council of New York. Annual Collaborative Medal of Honor of New York's Architectural League went to Eero Saarinen & Associates for its Thomas J. Watson Research Center; League also presented three gold medals nine silver medals, and twelve honorable mentions.

Morris Ketchum, Jr., has replaced Harmon Goldstone as head of the Municipal Art Society; Goldstone resigned to join the New York City Planning Commission. Although the one he staged last year was announced as his swan song, Edwin Hateman Morris is doing yet another "Scrapple Breakfast" for the Tile Council of America at the Dallas AIA Convention.

New York chapter AIA presented its 1962 Award of Merit to author Lewis Mumford. Harold G. Lewis, president of Flint Steel Corp., Tulsa, Okla., was re-elected president of the American Institute of Steel Construction.

Painter Edwin Dickinson was elected to fill the membership in the American Institute of Arts and Letters made vacant by the death of Eero Saarinen. Richard J. Canavan, former director of NAHB, is now Assistant Commissioner of the Office of Technical Standards of FHA.

In an interview he gave after he had accepted the $20,000 Kaufmann International Design Award recently, Dr. Walter Gropius praised groups like Britain's "Anti-Uglies" who try to combat thoughtless devastation of cities through bad planning and design. Gropius cited the British group's victory in having a grotesque proposal for Piccadilly Circus defeated. As part of a team doing New York's Pan Am Building for Erwin S. Wolfson and Jack Cotton (the latter the perpetrator of the Piccadilly bomb), Gropius let it be known that he will prepare a new design for the Circus site—for guess whom?

Mathew D. Seavey has been appointed Assistant to the Dean of the School of Architecture of Boston Architectural Center. Barbara Gray, director of research for William L. Pereira & Associates, was one of nine California women to be honored as "Women of the Year" by the Los Angeles Times recently. Two appointments at Harvard Graduate School of Design are William A. Doebbe as Associate Professor of City and Regional Planning and Charles W. Harris as Associate Professor of Landscape Architecture.
Glass Walls + Glass Roof = Aluminum Award

DALLAS, TEX. An AIA jury has chosen a "daring and unusual" French museum to receive the sixth annual R.S. Reynolds Memorial Award (which carries with it a $25,000 honorarium plus an original aluminum sculpture by Harry Bertoia). The award-winning Museum Cultural Center, owned by the city of Le Havre, is used for exhibitions, concerts, and lectures: it includes library, art school, club, and 800-seat auditorium. Nearly all wall and roof areas are sheathed in glass; because problems of glare and solar heat were largely eliminated, artificial lighting is not normally used.

The jury particularly applauded the "ingenious and sensitive" solution to one of the controls of natural light—a great sunscreen that floats over the building. Aluminum framework of the sunscreen is supported on extensions of the building's main columns. Fixed-angle blades in the shape of airplane wings are of striated aluminum.

Major criteria for judging were:
1. Architectural concept and solution;
2. Success in controlling natural light;
3. Use of aluminum in contributing to the design. It was felt that aluminum enhanced the design not only in the unique sunscreen but also in the skylight structural system and in the window walls. Altogether, 37 tons of aluminum were used, an important consideration being its corrosion-resistance in the seaside atmosphere of Le Havre.


Museum roof is fully skylighted. A ceiling of white plastic is suspended below the roof trusses, and artificial lighting is placed within the truss area.

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Here at Greenland—near Kingsport, Tenn.—the first step towards actually producing the highest quality plate glass available in the U.S. took place on April 3. It was then that a technician lighted off the 300-ton tank from which will soon flow an endless ribbon of glass. This modern, multi-million dollar glass plant will give American-Saint Gobain the distinction of being the only domestic manufacturer of all major types of flat glass—plate glass, window and sheet glass, and patterned glass.

Whether you're an architect, a manufacturer or a jobber, Greenland U.S.A. is news, good news! For the latest information on sizes, delivery and prices, call your nearest A-SG office. You'll find the telephone number in your classified telephone directory. American-Saint Gobain Corporation, Kingsport, Tenn.

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Aydelott Design Wins Federal Competition

WASHINGTON, D.C. Recently, the Department of Justice's Bureau of Prisons and the General Service's Administration Public Buildings Service conducted an invited architectural competition for the design of a new type of building: a psychiatric hospital for Federal prisoners. Eight firms with backgrounds in the design of health and/or penal buildings were invited; the winner was A.L. Aydelott & Associates of Memphis.

The winning design creates the feeling of a small village by breaking up housing into three "neighborhood units" surrounding a "civic center." The residential atmosphere is enhanced by the use of pitched roofs and living yards adjacent to the housing. Earth in front of the fence line is mounded so that the barrier is not visible from within the treatment compound. Medical and surgical research buildings complete the complex; they are well integrated into the plan, but are slightly aloof from the other facilities in attitude. The "civic center" contains chapel, gym, auditorium, educational facilities, and dining halls and kitchen. One of the housing clusters is the psychiatric treatment center for medium to intensive supervision and treatment. Use of prefabricated units would make construction economical.

Associate Architect on the project was Caudill, Rowlett & Scott; Hugh Stubbins was the Design Consultant.
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New sections of Washington Cathedral being roofed with lead.

25 years in
All stone in Washington Cathedral is set on lead pressure-relieving buttons in the joints.

Except for its attractive, uniform patina, the hard lead roofing atop the completed sections of Washington Cathedral is unchanged since its installation a quarter century ago. And some sections of the lead batten roof have passed their fortieth maintenance-free year.

This magnificent structure in 14th Century English Gothic style is now 65 percent complete, and new sections are currently being roofed with hard lead sheet. Why lead? Because it will not stain adjacent stone. Its inherent flexibility allows it to conform obligingly to intricate and irregular surfaces, thus installation is easier and cheaper. And lead lasts! Had this Cathedral actually been built in the 14th Century, its lead roofing could well be intact today.

Elsewhere throughout the Cathedral, lead is also at work. Lead pressure-relieving buttons bear the weight in thousands of stone-to-stone joints. And representing the course and continuity of Christian history are dozens of leaded stained-glass windows.

At Saratoga Spa in upstate New York, Federal Courthouse in New York City's Foley Square, and in Rahway Reformatory in New Jersey, lead roofs have also passed their first of many quarter centuries of maintenance-free service.

If you're looking for materials that last — from roofing to sub-structural vibration-isolating pads — by all means look into lead. For more detailed facts or technical assistance, write Lead Industries Association, Inc., Dept. N-5, 292 Madison Avenue, New York 17, New York.
AESTHETICS CONFERENCE
ADDRESS BY HECKSCHER

August Heckscher, Special White House Consultant on the Arts and Director of the Twentieth Century Fund, gave the feature address at last month's "Conference on Aesthetic Responsibility" sponsored by the New York chapter AIA.

"Judging by the apparent attitude of too many present-day Americans," Heckscher said, "there is doubt whether we shall ever be able to extricate ourselves from a descending spiral of ugliness and irrationality. What is required is readiness to undertake on a large scale the kind of public works which are truly public—in the sense that they serve the highest interests of the citizenry; and truly works—in the sense that they are made to endure and to be judged by future generations."

"We have been prepared to call on the best architects in the country when it has been a matter of building abroad. . . . At home, however, the story is quite different. . . . We might well feel impelled to ask, in regard to our own public buildings, whether we consider ourselves to be so backward or uncivilized that we cannot enjoy the kind of beauty which we prepare for others."

". . . [But] there is certainly an influence taking shape which promises for the America of tomorrow a more sane appreciation of the true values which make a civilization. . . ."

"Let us make sure, as we build for ourselves, that men and their cities prove of equal worth. It is not, after all, only beauty itself, but also the striving for beauty that lifts up men and make a civilization. We shall strive in our own way, as this second half of the century moves toward its meridian. Who shall say that the striving will not bring its own rewards? Who shall know where the greatest achievement will ultimately lie—within ourselves, or upon the enduring face of the things we have created?"

RUTGERS EXPANDS

Construction will begin in the fall on the first four elements of an eventual 19-building master plan designed by Kelly & Gruzen for Rutgers College in Newark, N.J. The four buildings will be the library (top center), the law center (foreground), and the science and humanities buildings (left and right center). The plaza, which the library will face, has been designed as the focal point of the campus. Structures will be reinforced concrete frame featuring exteriors of concrete wall panels, glass, and brick.

Why Not?

Former President Harry S. Truman, giving the word to Washington reporters during one of his famous morning walks recently, pronounced what seems to this department a pretty good idea of what to do with statues of generals and assorted militia which seem to infest many cities. "Franklin D. Roosevelt and I used to talk of putting them all in one park, lined up in military formation," he said.

TALLEST FOR LOOP

A projected 35-story office building for Chicago's "Loop" will be the largest and tallest built there since the early 1930's. Designed by Skidmore, Owings & Merrill, the building will feature a weight-bearing, stressed-skin exterior structure, with 37-ft concrete bays. It has been named after the Brunswick Corporation, largest tenant signed up thus far.

Provision for Piscine Performers

Across the Golden Gate from San Francisco in Mill Valley, a "Marine-world" exhibition complex will rise by fall of next year. Designed by Mario Gaidano, the project will consist of (from left to right in the rendering): a 3000-seat Aqua Theater; the main exhibit building with two large performing pools and smaller exhibition tanks; and a three-acre section containing picnic area, concessions, and restaurants. A channel in from the

Continued on page 84
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Continued from page 80
bay will be diverted to separate the complex from the parking lot. The public will enter the main building at a lower level and observe marine life through viewing windows before emerging at the top, where there will be a 1500-seat arena. One of the 80-ft-diameter pools will be for sharks, one for whales. The architect and client are working with planning commissions and other municipal bodies to make certain that "the project is an ideal example of co-operative effort."

Architecture in Decline

Louis Kahn was the speaker at the last of a recent series of symposia, The Building Boom: Architecture in Decline, sponsored by the Architectural League and the Museum of Modern Art. Unfortunately, his unprepared statement did not contribute anything to the discussion. More significant was the summary of the series by the moderator: as long as the ownership of land is in private hands, there is no hope for architecture; as Abraham Lincoln has said—land, like air and water, should be in the public domain.

NEW COLLEGE FOR CALIFORNIA

Master plan by John Carl Warnecke & Associates for new campus of Sonoma State College near Cotati, California, groups major activities around a campanile court. Three main elements are: academic and science center, above campanile; administration center, to right of campanile; and physical education center, surrounding swimming pool below campanile. Completion of these units, which will result in a 2000-student facility, is expected in 1967. Present plan comprises the nucleus of what will eventually be a 12,000-student campus, which is forecast for 1985.

DISCUSSANTS ANNOUNCED FOR WORKSHOP CRITIQUE ON STEEL IN ARCHITECTURE

All architects and their consulting structural engineers are urged to circle June 14 and 15 on their calendars and to plan to be in New York on those days.

The Workshop Critique is at that time, to discuss critically the winning entries in the Architectural Awards of Excellence Program of the American Institute of Steel Construction, are now at the point where the "critics" can be announced. They are the five members of the jury for the AISC judgment, which is being held at about the time this issue goes to press. Those jurors are:

Robert W. Cutler, FAIA, partner in the firm of Skidmore, Owings & Merrill.
George Edson Danforth, AIA, Director, Department of Architecture and City Planning, Illinois Institute of Technology.
John T. Grisdale, FAIA, Partner, Carroll, Grisdale & Van Alen.

Julian Whittlesey, FAIA, Partner, Whittlesey & Conklin.

The Workshop Critique will be conducted in the manner of the P/A Design Awards Seminars—that is, the architect and the engineer of each building to be analyzed will present their work by means of slides and description. A discussant (one of the jury members listed above) will then analyze the architectural and structural result, as critically as he wishes. The designers will have an opportunity to respond if they wish, and, after that, discussion will be thrown open from the floor. This technique has proved to result in lively, critical, intra-professional analysis, of benefit to all who are at the sessions. It is hoped that at this Workshop Critique useful evaluations and conclusions can be drawn as to the future of steel in architecture: the directions that structural design in steel should take, its relation to present building technology, and its ability to solve the new planning needs that architects are facing today in individual buildings and in the broader aspects of planning and redevelopment.

The Workshop Critique will be held in the Terrace Room of the Plaza Hotel in New York. Sessions will start promptly at 9:00 o'clock in the morning, and will continue through the afternoon until 5:00 o'clock. There will be a luncheon in the Persian Room at the Plaza, at which a leading figure in the steel industry will speak about current developments.

On the following day, June 15, there will be tours arranged to outstanding buildings in the area for those who want to remain for that purpose.

Thomas H. Creighton, P/A's Editor, will open the Workshop Critique session, and Burton H. Holmes, Technical Editor, will moderate the discussions.

Those who would like to attend should notify either Mr. Creighton or Mr. Holmes as soon as possible, so that adequate provisions can be made.
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The effects of the Washington: how to meet the challenge posed by this new, vigorous economic community.

All of this is key to the emergence of the Common Market—its official title is the European Economic Community, or EEC—as a powerful economic force. EEC was formed in 1958 as a trade union of Belgium, France, Italy, the Netherlands, Luxembourg, and West Germany. But it is more than a trade union; quite frankly, it is also a forerunner of an international governmental union, a "United States of Europe."

The rapid reduction of trading barriers between these six highly industrialized nations (population—over 170 million; gross national product—now approaching $300 million) has resulted in a phenomenal annual increase in business activity. And it has made the market area very attractive for more than 500 U.S. companies that have invested nearly $8 billion over the past three years to establish branches or subsidiaries, and build new plants to do business as "local" organizations.

Much of the investment has gone into brick and mortar for new plants and other structures. With the impending grant of further tax cuts to the President to carry on tariff-reduction negotiations, it has been real fear in Washington that U.S. capital investment may grow even more rapidly—to be followed by curtailment in expansion plans at home.

The blow to foreign investment would be a tax on earnings of foreign subsidiaries, regardless of whether the actual money is brought back to the United States in the form of dividends or other payments. (Under existing tax laws, such earnings are not taxed until they return to the U.S.)

The close tie-in between the new tax legislation and the whole subject of the Common Market is a highlight of one of the truly "great debates" in Washington: how to meet the challenge posed by this new, vigorous economic community.

There is no doubt that the Market will affect any and all business in the U.S., whether they are engaged in direct foreign commerce or not. EEC nations can and do produce excellent materials, tools, and other products, and are already competing stiffly with U.S. products in Europe, in other areas of the world, and in the United States itself. If the U.S. now negotiates further reciprocal tariff drops, the competition is certain to increase.

(Tariffs, of course, are only a part of total barriers to trade. Import quotas, licensing agreements, cartels, and various taxes have an equally large effect.)

There's little opposition to the President's desire to cope with EEC: it is agreed that the Market exists, can produce, and must be lived with. Opposition has centered on the means—rather than the end. Many are afraid of provisions in bills before Congress that seem to give the President unlimited power, without congressional or court review, to change tariff rates. Decide which industries and which workers should get relief in the form of Government money or other help.

Construction, of course, is a service industry and there's no prospect of any increased direct competition in the U.S. from European architects or contractors. But there will certainly be more competition from these groups in other areas of the world. (The threat of international giants such as the Constantin Doxiadis firm which is on the make in the U.S. is probably limited to specific cases.)

The immediate impact on architects and the construction industry appears to be centered on prices of materials and equipment. These should stabilize or even come down under the pressure of a system based on a wage scale that at present is somewhere between a quarter and a third of U.S. rates.

For example, in 1961 the six Market countries supplied 257,210 tons of the total of 289,000 tons of structural steel imported into the U.S.; 470,000 tons of the 583,000 tons of reinforcing bar; and some 11 per cent of all aluminum imports. They also made heavy inroads into the plywood and paperboard figures.

As to other production, the Market countries (in 1959 and 1960) produced a yearly total of 1,342,000 tons of plate glass; 61,280,000 tons of cement; nearly 5,000,000 tons of steel; and 510,000 tons of aluminum.

FINANCIAL

The odd lull in business activity, flagged in P/A last month, seemed to be continuing through April. There was nothing especially alarming about it: it seemed that the economy had reached a small plateau and was content to rest awhile before moving along.

In March, for instance, the Department of Commerce reported that total construction expenditures were $4.1 billion—up 8 per cent over February ($3.9 billion), but rising at about the normal seasonal rate. One reason for the slow gain was in the fact that although private and Government general construction expenditures were showing normal rises, housing construction lagged slightly behind. As of the end of February, private housing was running at the rate of about 1,126,000 units for the year, a drop of 11 per cent from the 1961 period.

But there were some paradoxes in the situation: Prices for secondary sales of FHA-insured new-home mortgages rose in February to the highest level in nearly a year ($96.6), indicating a continuing tightening in available money supplies.

But the bond market reported the lowest rate of interest in three years on good grade municipal bond issues with tax-exempt features—a big break for the $135.7 million's worth of such issues approved in December alone, for example.

It wasn't hard to see what was happening: Investors were looking for safer havens for funds, rather than higher paying but riskier avenues.

Meanwhile, there were evidences of a real stir in the private construction area—sparked largely by huge expansion plans of the utility companies. During the month of March alone, for instance, telephone companies announced plans for construction totaling $881 million; electric companies, $230 million; gas pipelines, $156.7 million.

Private plant construction, however, still lagged—at a proposed $19.7 million.
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This has been quite a season for sculpture in New York. Following splashes made in various galleries and museums by Lipchitz, Rosenthal, Lippold, and Reder, among others, a large-scale exhibition of sculpture by the British giant Henry Moore closed recently at the Knoedler Gallery. Although there were no startling changes in his well-known technique, the show presented impressively the obvious admiration this strong artist has for the fundamental dignity of his fellow man. Shown are “Helmeted Head # 3,” 1960 (left) and “Reclining Figure,” 1956 (below).

The assemblage of wreckage and rubble into sculptural and/or architectural arrangements continues to preoccupy some artists. Most recent among them has been Richard Stankiewicz at the Stable Gallery. There is undeniably a certain manic vitality about his pieces, one of which you see here.

Item: It has been announced that the Vatican will send over Michaelangelo’s “Pietà” as the major drawing card for its pavilion at the New York World’s Fair. Well, at least it did not send his “Moses.”

**ART: SCULPTURE**

*Image of sculpture.*

*Image of sculpture.*

*Image of sculpture.*

*Image of sculpture.*
HUGE NEW S. C. O. A. SHOPPING CENTER at West Covina, California, is lighted by 37 Twin and 7 Single L-M Stylaire mercury luminaires. These have 1000-watt pink-white lamps rated at 42,000 lumens per lamp, with an average light level of 4 footcandles on the blacktop surface. Units are mounted at 32-foot mounting height, on 25-foot fully galvanized steel poles, spaced 105-110-feet laterally and 115-feet transversely, installation was made by Walters Electric, Los Angeles electrical contractors. Bruce Thyberg, the engineering consultant, is now president of Bruce Thyberg & Associates, in San Diego. Ballasts are built into the base, installation is exceptionally easy. Units are available in brushed aluminum and five pastel colors, in two sizes for 400, 700, and 1000 watt mercury lamps, with or without photo controls.

L-M Twin Stylaire™ Mercury Luminaires Light New California Shopping Center

Striking new design, and color harmonizing with contemporary architecture major factors in selection of Stylaire luminaires for huge S. C. O. A. center in West Covina.

Smart, modern styling and high efficiency with a minimum of glare led Engineering Consultant Bruce Thyberg to select L-M's newest lighting luminaire, the handsome Stylaire, to light this new shopping center in West Covina, California. West Covina, "City of Beautiful Homes," is the commercial center for the San Gabriel valley. The new S.C.O.A. (Serving Communities of America) center provides a wide variety of stores and services for this heavily populated area, and evening business is an important factor.

Mr. Thyberg decided on L-M Stylaire Mercury units because of their well-styled design, excellent glare-free lighting, and because relatively few units could be used to light the broad expanses of the parking areas, resulting in savings in poles, wiring, and installation costs. Thus these units provide high-level lighting and more parking area without a "forest" of poles taking up valuable parking space.

These units have wide acceptance for street and highway lighting, and for parking areas, public parks, malls, and hotel and motel grounds. They are particularly favored for airports because excellent light control eliminates upward glare.

ASK THE L-M FIELD ENGINEER

L-M provides a wide variety of lighting equipment and cooperates with engineering consultants in Lighting Applications. Call the Authorized L-M Distributor or nearest L-M office, for complete information on L-M equipment and services; ask the L-M Field Engineer or Lighting Engineer; or mail the coupon. In Canada: CLM Industries, McGraw-Edison(Canada)Limited, Toronto 13,Canada.
Now, your own design concept can be dramatically reproduced in lovely, lasting ceramic walls

Visualize the handsome effects you can create with low-relief sculptured ceramic walls of 3/8" CV Durathin. There is no limit to the design possibilities... no restriction on your choice of colors.

You will fully appreciate the versatility of sculptured CV Durathin when you see the 21 patterns illustrated in our new Design Series brochure. Send for it. Whatever design you select or create, Federal Seaboard will custom-make it for you. You have a choice of gloss, satin or unglazed finishes... and unit sizes range up to a maximum of 18" x 24" on centers. The price? Much less than you'd expect for walls of individualized beauty, quality and permanence.

FEDERAL SEABOARD

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For more information, turn to Reader Service card, circle No. 408

Bally pre-fab walk-ins all-metal coolers and freezers

Sectional construction! Expandable any time! Costs less than built-ins!*

Newest concept in refrigeration storage makes construction of "built-ins" on the job obsolete. Precision made pre-fab sections permit installation anywhere, any size, any shape. Easy to increase in size or disassemble for relocation. Aluminum or galvanized steel are standard finishes. Stainless Steel and acid-resistant Porcelain also available. All finishes remain sanitary... odor-free... rodent and vermin proof.

Free architect's fact file...

Includes guide for specification writers... 16-page Walk-in book... portfolio of 48 installation drawings and specifications. Also included is a Walk-in description form to request plans and specifications from Bally engineers for individual installations. Write on your company letterhead.

See Sweet's File section 26a/Ba.

*Based on cost scales in Metropolitan areas.

Bally Case and Cooler, Inc.
Bally, Pennsylvania

For more information, turn to Reader Service card, circle No. 332
Display Lamps Cool Off

CLEVELAND, OHIO A new lamp designed especially for display lighting cuts the heat transmitted to the area lighted by as much as two-thirds. Instead of vaporized aluminum coatings used in conventional projector lamps, reflectors for “Cool-Beam” lamps are made up of 17 ultra-thin coatings of a metallic substance that transmit virtually all the infrared energy emanating from the hot filament and reflect almost all the light. Thus the light is beamed down where it is wanted, and the heat is sent out through the top of the lamp. (Heat emanating from the top of the lamps requires open or ventilated fixtures.) The 300-w bulb comes in three beam types: narrow spot, medium flood, and wide flood. General Electric Co., Nela Park, Cleveland, Ohio.

On Free Data Card, Circle 100

Tube Sandwich Provides Low-Cost Partitioning System

CHICAGO, ILL. A low-cost interior partitioning system called “Structicore” has been designed that utilizes heavy fiber tubes between face layers of fireproof “Sheetrock” gypsum wallboard. The inherent strength of tubular members provided by the fiber cylinders makes this a particularly strong partition. In addition, the hollow fiber tube cores provide convenient channels for electrical wiring. The panels are joined with spline tubes and a special joint stabilizing compound that eliminates face nailing and provides continuous structural support along the entire edge of the joining panels. Finished and in place, the system becomes a smooth, blemish-free, monolithic unit. Panels are provided with mill-installed top and bottom plates of kiln-dried lumber for easy installing. They may be cut at any point with a hand or power saw to meet varying length requirements. United States Gypsum Co., 300 W. Adams St., Chicago 6, Ill.

On Free Data Card, Circle 101
Tent Design Uses New Type of Canvas Fabric

A permanent tent designed by Architect Robert Martin Engelbrecht for the Rocky Hill, N.J., Volunteer Company utilizes a new tent and awning fabric made of “Acrilan” acrylic fiber. This solution-dyed fiber is watertight, colorfast, weather resistant, and resistant to stains, mildew, and moths. Manufactured by Glen Raven Mills, Glen Raven, N.C., the fabric’s color is “locked in” by having it added while fiber is still in the liquid state. Other properties are dimensional stability, rapidity of drying, durability, pleasing feel to the touch, and resistance to chemicals and acids. Chemstrand Corp., 550 Fifth Ave., New York 1, N.Y.

On Free Data Card, Circle 102

Sparkling Planters

Bases of aluminum rods with mirror polished, anodized finish are used to support tabletops of marble or glass or to bear planters of heavy gage spun aluminum. Planter bowls are available in a variety of colored fused glass finishes as well as in mirror polished finish. A new process of fusing glass onto aluminum renders the surface virtually unchippable. The line should provide accents of controlled decoration for many areas. A line of smokers is designed to coordinate with the planters and tables: smokers have spiral snuffers and removable ash receptacles. All are mirror polished steel. Designed by Thomas Tapert of Hugh Acton Design Associates, they are available from AMV Inc., 588 Brookside Drive, Birmingham, Mich.

On Free Data Card, Circle 103

Take It from the Top

For a hospital surrounded by fine scenery, a venetian blind has been developed that lowers from the top so that patients under examination can enjoy the view and still have privacy. Its potential for any glass wall is great. The entire unit, mechanism and all, can be belledow without losing its ability to tilt the slats. Available in a variety of materials and colors from Levolor Lorentzen, Inc., 720 Monroe St., Hoboken, N.J.

On Free Data Card, Circle 104

Exit Devices

No Longer Down and Out

Manufacturers of “Universal” exit devices have introduced three new panic bars. Uniquely designed for maximum efficiency and safety, the bars utilize the principle of pushing in the direction of traffic flow rather than pushing downward. Several models are available, in cast bronze, aluminum, or stainless steel. Roland D. Reed, Inc., Rensselaer, Ind.

On Free Data Card, Circle 105

Transistorized Clocks

Secticon clocks, designed by Italian architect Angelo Mangiarotti and Bruno Morasutti, run for two years on the power of an ordinary flashlight battery. No winding is necessary, and wires leading to the clocks are eliminated. The works, consisting of a transistorized motor, a power adjustment device that insures accuracy, and the time mechanism, are contained within a plastic cube that can be easily removed for 2-year servicing. The cases of table models are molded in two pieces that are finely fitted to reveal only a scribed line. Raised numerals—parallel lines graduated in width—activate the upturned faces. Design-time, Inc., 16 E. 52 St., New York 22, N. Y.

On Free Data Card, Circle 106

Hemp Sun Screens

Three casement fabrics, designed by Fede Cheti of Italy, use hemp that is hand drawn to produce open-mesh patterns such as “Essen” (shown). One is a variation on Essen and is called “Bruxelles”; the third is a four-pointed star form, which would be compatible with cement block screens. All three, suitable for the casual screening that glass walls occasionally require, are available from Denning & Fourcade, Inc., 867 Madison Avenue, New York 21, New York.

On Free Data Card, Circle 107
Let There Be (Fluorescent) Light

First fluorescent post-mounted luminaire on the market has been announced by General Electric. Combining simple daytime appearance with economical light output after dark, the luminaire produces 6900 lumens from only 150 watts. Suggested applications are recreation, patio, and swimming-pool areas; industrial landscaped walkways; parks; development roadways. General Electric Co., Outdoor Lighting Dept., 1 River Rd., Schenectady 5, N. Y.

Desks on the Level

Flexibility is the aim of a series of desks that employ interchangeable components that permit them to convert to either secretarial, executive, or conference desks, and also table and storage units. Mirror polished steel bases can receive a variety of walnut or teak pedestals, side attachments, and tops with economy of installation. Pedestal cases are engineered to accommodate drawers singly or in combination without change of the runners. A "Levelator," (circled) incorporated in each leg, makes possible leg length adjustment without lifting the desk. Scandix Design Series 5, manufactured in Denmark, is sold by Scandix Designs, Inc., 432 Park Ave. So., New York 16, N. Y.

Half-Mile Conveyor Built into Floor

An in-the-floor conveyor, half a mile long, links Polsky's Department Store in downtown Akron with all departments of its new $4.5 million service building across the street. Merchandise of every type, from ready-to-wear to furniture, is carried on a variety of four-wheel trucks by the "Trukveyor," which winds through three floors of the service building and across a bridge to the fifth floor of the store. Similar conveyors have been widely used in railroad and truck freight terminals and in numerous warehousing operations, but this is the first time that such a system moves the entire spectrum of a department store's merchandise.

Wood Folding Partition Is Lightweight

New wood folding partitions weighs only 2 lb per sq ft, has panels 1 ft wide for openings and space division in institutional and commercial buildings. Available in widths up to 50 ft and heights up to 16 ft, the panels are 1/4" thick by 121/2" wide, covered each side with three-ply hardwoods, faced with veneers of finished or unfinished Philippine Mahogany, Birch, Walnut, or Oak. Full-length panel connectors of opaque vinyl are locked in on each side with hardwood edge strips and finished facings. Laboratory tests on the partitions equivalent to 25 years normal use have been conducted. New Castle Products, Inc., New Castle, Ind.

Oil and Water Do Mix

A "never before" mixture of linseed oil and water has produced a house paint that has double advantages: the durability and adhesion of linseed-oil paint plus the convenience and rapid drying of water paint. Staley's new "100% Pure Linseed Oil Latex House Paint" dries in 30 minutes, is blister and mildew resistant, gives excellent adhesion even on chalky surfaces, and can be cleaned up with soap and water. Staley Paint Manufacturing Co., 5243 Manchester Ave., St. Louis, Mo.
FIRST TIME EVER! INCOMBUSTIBLE TILE
SAFETY AT WOODFIBER TILE PRICES!

Underwriters' Laboratories, Inc., inspects and labels Simpson PCP ceiling tiles. Like incombustible mineral tiles, PCP has a flame spread rating of less than 25.

PCP ceiling installations are now replacing mineral tiles that cost up to 50% more. Simpson PCP costs only a few cents more than ordinary woodfiber acoustical tile.

Pyro-Chem Protection is an exclusive Simpson process. Not just a surface treatment, every fiber throughout the tile is impregnated with special PCP fire-proofing chemicals.

Simpson PCP acoustical tiles are not only safe and economical, they are acoustically efficient; NRC ratings up to 70. Room-to-room attenuation factors average 37.6-41.5 db. Available in 4 beautiful Foresone® sculptured textures and 2 perforated designs.

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Loman Acoustics

COLORADO
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Construction Specialties Co.

CONNECTICUT
Hartford
Wilson Construction Co., Inc.

FLORIDA
Jacksonville
Center Bros., Inc.

GEORGIA
Evansville
Elmer Kaper Ac. & Plastering Co.

ILLINOIS
Chicago
General Interiors Co., Inc.

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For more information, turn to Reader Service card circle No. 39D
Only Onan has solved

Here are a few of thousands of buildings that have installed Onan standby power:

- Halle Bros. Department Stores, Middleburgh Heights, Ohio
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- Phillips' Supermarket, Auburn, Mass.
- Loveman's Dept. Store, Birmingham, Ala.
- Hudson's Bay Company, Winnipeg, Canada
- Newfoundland Radio Station VOCM, Newfoundland
- Radio Station CJAD, Montreal, Canada
- Tedikis Supermarket, Plymouth, Mass.
- Cheltenham Supermarket, Barrington, R.I.
- Howard Johnson Restaurant, Portsmouth, N.H.
- Radio Station WEEL, Medford, Mass.
- Birch Street Garage, Cranston, R.I.
- Hugo Hillstrom Hatchery, Cohato, Minn.
- Ford Motor Co.—Twin Cities Assembly Plant, St. Paul, Minn.
- University of Minnesota, Minneapolis, Minn.
- Jesuit Fathers Church, St. Jerome, Quebec
- Pako Co.—Golden Valley, Minn.
- Vanderbilt Univ., Nashville, Tenn.
- Sunbeam Farm Greenhouse, Westlake, Ohio
- Lines Orchids, Inc.
- Signal Mountain, Tenn.
- Rhode Island Milk Assn. Bldg., Warwick, R.I.
- Beauchamps Dairies—Winter Haven, Fla.
- Rider College, Lawrence, N.J.
- Central Service Station, Edison, N.J.
- Gulf Power Co., Fort Walton, Fla.
- Bessemer Electric Service, Bessemer, Ala.
- City of Nashville, Nashville, Tenn.
- Water Resources Board (State of New Hampshire), Manchester, N.H.
- Michigan Bell, Detroit, Mich.
- California Interstate, Carson City, Nevada
- Toll Road Service Area—Near Ohio Line, Ohio Turnpike, Lorain, Ohio
- KVOC-TV, Tulsa, Oklahoma
- Troy Elementary School, Troy, Pa.
- Chambersburg High School, Chambersburg, Pa.
- Sioux Falls School (Axtell Park Jr. H.S.), Sioux Falls, S. Dak.
- Pure Oil Station, Cable, Minn.
- Wold Chamberlain Field, Minneapolis, Minn.
- Police Bldg., Lexington, Mass.
- Barrington Town Hall, Barrington, R.I.
- Radio Station WGL, Ft. Wayne, Indiana
- Southeast Colorado Power Assn., La Junta, Colo.
- Radio Station WPRC, Minneapolis, Minn.
- Radio Station WBYR, Waterbury, Conn.
- Radio Station KSFL, St. Louis, Mo.
- Fire Station, Minneapolis, Minn.
- Sewage Disposal, Columbia Heights, Minn.
- Farm Bureau Mutual Insurance, Concord, N.H.
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Yours is the essential judgement in determining the practicality of standby electric power in buildings you plan or modernize. When, in your judgement, standby is a consideration, we hope you'll call in your local Onan man early in your planning. Fulltime specialists in this field, you'll find their experience helpful in deciding how much critical power insurance is needed. Often, you'll be surprised how little emergency power they'll recommend.

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For more information, turn to Reader Service card, circle No. 416
Sisalkraft provides double-duty protection

Waterproof, super-strength Sisalkraft provides double-duty protection needed for top quality concrete.

Maximum moisture retention assures slower hydration... provides frost protection and minimum fluctuations of temperature in the slab.

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Results! Finished slabs with maximum density, and smooth, clean and more dust-free surfaces. Plus... low initial cost and extra savings in easier application and faster, minimum-cost clean-up.


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REINFORCED CURING PAPER

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For more information, turn to Reader Service card, circle No. 407.
UNIQUE METHOD FOR DESIGNING SPEECH PRIVACY

New “Speech Privacy Design Analyzer” provides an accurate yet simple method of determining the degree of speech privacy required for any given room, and of selecting the building materials that will give the necessary sound insulation. According to Bolt, Beranek & Newman, developers of the Analyzer, the speech-privacy problem has become increasingly difficult in recent years, as materials that are inherently effective as sound isolators have been replaced by materials of lighter weight.

At the outset of this project, BB&N arranged carefully controlled experiments to try to define adequate speech privacy. Test subjects were remarkably consistent in their response, making it possible to establish—for the first time—definite criteria for acoustic privacy.

Research also indicated that a number of factors are significant in providing adequate speech privacy, in addition to the sound-isolating performance of the separating construction. Such factors as size and shape of the rooms, sound absorption in the rooms, speaking levels of occupants, nature of occupants' business, and—perhaps most important—level of air-conditioning noise, traffic, or activity noise present in the rooms are all accounted for in the Analyzer method.

The Analyzer resolves speech-privacy problems without reference books, product literature, decibels, or technical terms. Its most complicated arithmetic procedure is the addition of five numbers. Information on a wide variety of products will be kept up-to-date as necessary. For further information on the $18 Analyzer, write to: Owens-Corning Fiberglas Corp., 717 Fifth Ave., New York, N. Y.

AIR/TEMPERATURE

Electric Heaters

Colorful 16-page catalog covers the complete line of Emerson Electric and Emerson-Pryne heating products. Among the units shown are a new baseboard heater, fan-forced built-in heaters, in-the-wall radiant heaters, and built-in bathroom heaters. Also described in detail are thermostats and other control equipment for these products, including new automatic setback control system. Specifications and dimensional data are given for all items. Emerson Electric Co., 8100 Florissant Ave., St. Louis 36, Mo.

Electronic Air Cleaners

New 28-page booklet presents benefits and features of electronic air cleaners for heating, ventilating, and air conditioning. Along with discussion of a variety of air-cleaner applications, the booklet covers design and engineering of various models, and gives their dimensions, outputs, efficiencies, and specifications. Minneapolis-Honeywell Regulator Co., Commercial Div., Minneapolis 8, Minn.

Asbestos-Cement Panels Shown in Varied Uses

Applications of “Weldwood Glasweld” are illustrated in new 36-page brochure. The enamel-coated, asbestos-cement panel is shown in a variety of uses: insulated sandwich panels, balcony panels, window inserts, soffits, and facing panels. Color photographs and construction details are given of a number of recent buildings, from residences to refineries. United States Plywood Corp., 55 W. 44 St., New York 36, N. Y.

Specs from Metal-Lath Industry

1962 edition of Specifications for Metal Lathing and Furring, 20 pages, is available. A general specification has been written for each type of metal-lath construction; this is then supplemented, where necessary, by a specification devoted to special details. The major sections include partitions and vertical furring, studless solid parti-
Stainless-Steel Data

New series of design data sheets on stainless steel in architecture has been announced. The first in the series, entitled Stainless Steel for Maintenance Economy, is a 4-page folder describing use of the metal to minimize future cleaning and repair costs. Specifications for final cleaning, and a table of effective cleaning methods, are given. The second bulletin, Detailing Column Covers, discusses the basic considerations (grades and finishes, design, stiffening) in designing stainless-steel column covers. Column details from six different buildings are shown in the 6-page folder. Committee of Stainless Steel Producers, American Iron & Steel Institute, 633 Third Ave., New York 17, N. Y.

On Free Data Card, Circle 204

New Developments in Curtain Wall

Latest catalog on “Thinlite” curtain wall, 8 pages, illustrates several new developments. Among the changes (aside from new lower prices) are: (1) new strut design for improved appearance; (2) addition of precast stone panels for increased design possibilities; and (3) use of flame-retardant polyurethane instead of foam glass as lightweight core insulation. Thinlite is a completely integrated curtain-wall system, prefabricated and ready for erection, including all basic framing. Panels are in two standard sizes—2' x 4' and 2' x 5'—and in three general types: glass tile, opaque panels, and window panels. Kimble Glass Co., Subsidiary of Owens-Illinois, Toledo 1, Ohio.

On Free Data Card, Circle 205

DOORS/WINDOWS

Labeled Doors and Frames

Available for the first time on a single sheet are complete specifications of Steelcraft fire doors and frames having the Underwriters’ Label. The table shows label classification and use of doors, door types and sizes available, maximum glass area permitted, and hardware requirements. General notes on labeled doors and frames appear on the reverse side. The Steelcraft Manufacturing Co., 9017 Blue Ash Rd., Cincinnati 42, Ohio.

On Free Data Card, Circle 206

Plastic Dome Skylights

Catalog on plastic-dome skylights by Naturalite states that correlated lighting (daylight and artificial light) is “the most practical and economical method of illumination with complete environmental control.” Featured in the 12-page catalog are square and rectangular dome skylights, which are available as single or double domes in 26 stock sizes and five daylight-control materials. Other units are: a new “Low Profile” skylight, a dome with insulated metal curb, ventilating domes, and units with automatic venting of heat and smoke. Complete technical and dimensional data, and short-form specifications, are included. Naturalite, Inc., 5115 E. Grand Ave., Dallas 23, Texas.

On Free Data Card, Circle 207

Entrances Cataloged

Natcor entrances and store fronts are detailed in new 8-page catalog. The complete line includes three door types and three basic framing systems, to meet every entrance requirement with the adaptable components. Catalog describes features of the extruded-aluminum entrances, gives typical details and dimensional data on the various lines. Specifications are included. The Natcor Co., 712 Fogg St., Nashville 3, Tenn.

On Free Data Card, Circle 208

ELECTRICAL EQUIPMENT

Bullet Fixtures

New catalog illustrates a variety of bullet fixtures designed for specific architectural needs. Included are two-way adjustable units for use where ceilings are sloped, two-light stem-mounted fixtures, and twin pendants. Special new deep-well canopy plates and surface mounting adapters are intended for installation problems in existing buildings. Stonoe Electric Products Co., 333 Monroe Ave., Kenilworth, N. J.

On Free Data Card, Circle 209

Store Lighting

New technical publication, entitled Store Lighting, discusses the importance of quality lighting in commercial
For Good School Planning specify

CORNELL ROLLING METAL GRILLES, SHUTTERS & DOORS
for sure protection with beauty

ROLLING GRILLES: As light and airy as a butterfly in appearance ... yet they give "steel-door" protection. Introduced by Cornell in 1931. Widely used to close off corridors and stairways without shutting off air and light. Cannot pinch fingers. Furnished in galvanized steel, aluminum, bronze, stainless steel.

ROLLING STEEL FIRE DOORS: Underwriters labelled, 3 hr. test approved. Maximum protection and maximum savings in insurance rates. Advanced space-saving features including automatic closure in case of fire.

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PACKAGED PASS WINDOWS: Completely assembled. One installation. Integrated stainless steel frame with 1/4" flatslat aluminum shutter.

ROLLING SERVICE DOORS: Manual and motorized for shop & receiving entrances, piano enclosures, etc. All metals.

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REPRESENTATIVES IN PRINCIPAL CITIES

For more information, turn to Reader Service card, circle No. 338
STYROFOAM®

Rigid insulation

saves masonry insulating costs and time,
gives permanent insulating values

COMBINED FORM LINER/INSULATION. Styrofoam insulation eliminates the need for a form release agent . . . acts as its own vapor barrier . . . and provides high, permanent insulating values. Concrete keys positively to the cellular surface of Styrofoam insulation. When forms are removed, permanent insulation is in place, ready for finishing.

MASONRY WALL INSULATION
Styrofoam insulation eliminates the need for furring and lathing. A new Dow method of quick installation permits adhering Styrofoam directly to the masonry, followed by the application of gypsum wallboard without the use of nails . . . or plaster can be applied directly to the face of the insulation.
STYROFOAM brand insulation board offers advantages for use as both comfort insulation and for low temperature applications in masonry construction. For example, this lightweight, foamed insulation offers savings in installation time and costs, by eliminating steps in “conventional” construction. It also offers a low “K” factor which will stay low year after year. Styrofoam insulation contains millions of tiny non-interconnecting air cells with high resistance to the passage of heat and moisture vapor.

Styrofoam has no food value, nor will it rot or mildew. It’s easy to handle and install. High compressive strength permits pouring concrete directly over it for floor or ceiling construction. And Styrofoam insulation is flame retardant.

THURANE® brand insulation board is a rigid urethane foam which offers unusual insulating effectiveness for low temperature applications. For example, a curtain wall panel with a core of Thurane insulation permits approximately 40% less heat flow than a panel made with conventional core materials. Consequently, panel thickness can be reduced by up to 40% with no sacrifice of insulating efficiency ... a decided advantage where low temperature space is at a premium.

For every kind of insulated masonry construction ... for coolers, freezers, pipe covering ... Dow insulating materials offer both installation and performance advantages. For information and data, write THE DOW CHEMICAL COMPANY, Midland, Michigan, Plastics Sales Department 1300EBS.

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whenever there's...

DRIPPING
SPILLING
SPASHING

men who know tile floors
best, specify and install

HYDROMENT

JOINT FILLER

Wherever there's food handling, there's sure to be spilling, dripping and dropping. Ordinary grouts can't withstand the corrosive attack of food acids and alkalies. That's why Hydroment Joint Filler was specified for the quarry tile kitchens and cafeterias of No. 1 Chase Manhattan Plaza. It forms a permanently tight, dense, joint — non-toxic, odorless, highly resistant to wear and corrosion. It inhibits bacteria growth; very easily maintained. Widely used with brick or tile for over 20 years in cafeterias, restaurants, hotels, motels, hospitals, schools, etc., wherever there is mass feeding and mass housing. Seven colors, plus black and white.

Continued from page 102

design. The 20-page booklet describes principles, outlines techniques, and suggests proper light sources for effective lighting in various types of stores and in specific store areas. Attention is focused on general lighting, display lighting, and perimeter lighting. Photos, diagrams, and tables are included. General Electric Co., Inquiry Bureau, Nela Park, Cleveland 12, Ohio.

On Free Data Card, Circle 210

FINISHERS/PROTECTORS

Maple Topping

New list of MFMA tested and approved floor-finishing products is available. All products have been examined under the revised specifications issued three years ago, and give the user the benefit of extensive research carried on during this time. Both penetrating sealers and bakelite types of finishing products are included: the sealers are recommended for finishing hardwood floors in residences, school classrooms and gymnasiums, ballrooms, and industrial plants; finishes of the bakelite type are recommended for floors under comparatively light traffic. The list also includes a number of products of epoxy and polyurethane composition.

Maple Flooring Manufacturers Association, Research Dept., 35 E. Wacker Drive, Chicago 1, III.

On Free Data Card, Circle 211

Zinc-Coated Steels

Selection and use of zinc-coated steels is the subject of a 28-page manual from Armco. Tables give physical properties and costs as compared with painted steel sheet. Fabrication techniques, paintability, and weldability are covered for each of four grades of the zinc-coated steel. Booklet also illustrates typical applications and includes a guide to specifications. Armco Steel Corp., Product Information Service, Middletown, Ohio.

On Free Data Card, Circle 212

Masonry Surfacing

Colorful chart describes new masonry-surfacing compounds that serve a variety of maintenance and repair needs. The epoxy materials change worn, dangerous areas into durable, skid-resistant surfaces. Unusually high adhesive strength, durability, and chemical resistance provide long-lasting protection against wear and corrosion of industrial floors, loading docks, processing areas. E. V. Roberts & Associates, Inc., EVRA Plastics & Chemicals Div., 5068 W. Washington Blvd., Los Angeles 16, Calif.

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INSULATION

Low Flame-Spread Rating
—at Low Cost

Unique in the acoustical-tile industry is Simpson's new process that combines the advantages of wood-fiber acoustical tile with the flame-spread safety of mineral tile. Through the "Pyro-Chem Protection" process, fire resistance becomes an integral part of the tile itself. New catalog, 4 pages, gives physical properties and specifications of the new PCP tile, comparing it with incombustible mineral tile and with regular acoustical tile. PCP products are available in six patterns. Simpson Timber Co., 2044 P Washington Building, Seattle 1, Wash.

On Free Data Card, Circle 214

Multipurpose Insulation

"Spintex," a versatile insulating material felted from long siliceous fibers, is described in new 12-page bulletin. Spintex is recommended for applications ranging in temperature from subzero to 450 F (although the fiber will withstand continuous temperatures up to 1000 F). The material is noncombustible, noncorrosive, and nonabsorptive. It is widely used for air-conditioning ducts, for storage tanks, for ceiling of metal buildings, and for cold-storage walls. There are six dif... continued on page 110
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Public convenience keeps pace with the jet age via SPEEDRAMP Passenger Conveyor Systems at the new Akron-Canton Airport, Akron, Ohio. Passengers and spectators are carried effortlessly and safely from entrance to terminal lobby and from terminal lobby to plane concourses and back again by four SPEEDRAMP Passenger Conveyors. Operating in pairs, the SPEEDRAMP Passenger Conveyors carry pedestrian traffic between ground level and the second floor terminal lobby. This most modern method of moving people over a vertical plane provides convenience, efficiency, speed, safety, combined with showcase beauty, low initial cost and minimum maintenance. SPEEDWALK and SPEEDRAMP Passenger Conveyor Systems have logged an enviable record for eliminating needless steps for millions of passengers at installations across the nation and abroad. Investigate these advantages by requesting full details today.

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In this classroom, visual details are sharp and clear, colors are distinct and true. The light is bright, yet with no shadows or glare, because it comes from Fiberglas Polarizing Light Panels. The staff of Roeland School praise the lighting this way:

Superintendent Walter C. Giffin: "The coming thing for classroom use."

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Reading Consultant Robert Phillipps: "No glare or shadows—even for the high level of illumination."

Recently, at Ohio State University, the benefits of polarized
light were tested and verified. It was demonstrated that this type of light virtually eliminates reflected and direct glare, and reduces veiling glare. It also significantly improves color definition, visual performance, and task visibility in comparison with nonpolarized light at equal candlepower.

For the most advanced improvement in interior illumination, insist on Fiberglas Polarizing Light Panels in any lighting enclosure you specify.

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SANITATION/PLUMBING

Pumps and Water Systems
New 69-page catalog presents the full line of Deming products, ranging from boiler feed pumps to turbine pumps. Catalog describes centrifugal pumps, condensation return units, hydraulic test pumps, jet pumps and water systems, reciprocating pumps and water systems, rotary pumps, submersible pumps. Complete product information is given on all units and accessories. Wiring diagrams and price lists are also included. Deming Div., Crane Co., Salem, Ohio.

On Free Data Card, Circle 217

Corrosion-Resistant Piping is Evaluated
New 8-page booklet will aid in selecting the proper thermoplastic material for low-cost piping of corrosive fluids at elevated temperatures. The best combination of chemical, thermal, and mechanical properties is discussed for a variety of applications: chemical and food processing, laboratory and other industrial piping, and waste-drainage systems. Economic and operating advantages are summarized for each of seven types of industrial thermoplastics and for plastic-lined piping. A checklist is provided to rate each material on a point basis for specific applications. Tube Turn Plastics Inc., 30th and Magazine Sts., Louisville 11, Ky.

On Free Data Card, Circle 218

METAL COMPONENTS

for Screens and Railings
Condensed catalog of architectural metal components is now available from Julius Blum. Among the several new additions to the company's line are: (1) recently introduced "Curtain-screen" system of stock decorative-screen components; (2) new group of components for the "Carlstadt" aluminum railing system; (3) new colors.
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All doors open and close...but this new 1⅜" Ceco steel door opens and closes in a different way!

It does it q-u-i-e-t-1-y. The Ceco door eliminates all metallic ring. How? By an exclusive full-honeycomb core that does a superb job of deadening sound.

It does it handsomely. The Ceco door gives the architect and contractor almost unlimited decorating opportunities. The unique design and flush construction permit any kind of finishing texture. This door is seamless on both faces and completely flat.

...and here are other advantages

- Top and bottom edges are closed flush, leaving no voids to catch dirt at the top or to wedge foreign matter at the bottom.
- Hardware never loosens—reinforced attachments hold it fast.
- Every door is bonderized and finished in gray epoxy-base primer, baked on.
- Available in combination door-frame-hardware "packages" for trouble-free installation. Seven styles in single or double types. Standard sizes.

Ceco's new 1⅜" door complements a full line of 1¼" doors, including the new Commercial Flush Door... the Custom Medallion Door... and Recessed Panel and Flush Panel Doors.

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...all the facts about all Ceco metal doors and accessories.
28 pages of features and specs. Just send coupon.

For more information, turn to Reader Service card, circle No. 422
Continued from page 110

for "Colorair" plastic handrail; and (4) new treillage patterns of contemporary design. Besides these new products, the 28-page catalog illustrates other stock items: pipe railings, wrought iron and nonferrous railings, steel tubing and caps, aluminum shapes and tubing. Booklet is illustrated with detail drawings and sketches that show fabrication features and finished appearance of the various components and systems. Weights and dimensions of all items are listed. Julius Blum & Co., Inc., P.O. Box 92, Carlstadt, N. J.

On Free Data Card, Circle 219

ASA Specification for Physically Handicapped

A new American Standard specification, Making Buildings and Facilities Accessible to, and Usable by, the Physically Handicapped, 12 pages, has been prepared. In urging that architects incorporate these specifications in their public buildings, sponsors of the standard point out the size of the problem: there are 5,000,000 people with heart conditions, 600,000 in wheelchairs or with heavy leg braces or artificial limbs, and 16,500,000 who are over 65. The standard gives specific recommendations for site development as well as for building elements (entrances, stairs, floors, toilet rooms, identification of facilities, warning signals, etc.). The President's Committee on Employment of the Physically Handicapped, Washington 25, D.C.

On Free Data Card, Circle 220

SURFACING MATERIALS

Built-in Refrigeration

1962 Data and Specification File from Revco contains complete information on built-in refrigeration for kitchens. Refrigerators, freezers, and combination units are illustrated in separate product brochures. Full specifications are given, as well as data on cabinets and installation. The file also includes 20-page idea book, How to Plan a Trend-Setting Kitchen, which shows outstanding kitchens throughout the country. Revco, Inc., Deerfield, Mich.

On Free Data Card, Circle 221

Resilient Flooring

1962 catalog of Azrock floor products, 12 pages, gives color charts of vinyl asbestos and asphalt tile. In each type there are wood tones, carpet tones,
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P&S ROCKER-GLO
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PILOT LIGHT HANDLE ROCKER-GLO
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REMOTE CONTROL ROCKER-GLO
Momentary contact, center "off" switch. Designed especially for low voltage remote control applications - controlling large banks of lighting, operating stage curtains, etc. Single pole, double throw. Rating: 10 Amperes, 48 Volts, A.C.

For more information write Dept. PA-562

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To an ever-increasing degree in home and commercial building, the quality of the sliding glass doors symbolizes the quality of the entire structure. For this reason, more and more architects and builders are selecting Miller quality sliding glass doors. Visually, a beautiful focal point; structurally, there's durability and quality in every detail. For single and/or dual glazing.

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The UniMac 202 Washer-Extruder Combination and the Goldreyer 37 are rugged, compact commercial equipment proved in hundreds of installations. Each processes up to 150 lbs. dry weight washables per hour which is, for example, sufficient volume to meet the daily laundry requirements of 500 hotel rooms. A combined equipment four space of only 22 sq. ft. is required. There's no vibration, no belting to burn. Operation is trouble-free without costly maintenance.

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cork hues, and marble patterns. "Premiere" series in vinyl asbestos has a luxurious travertine pattern that is distributed at every level through the full thickness of the tile, and is one of several Azrock products especially recommended for heavy traffic uses. Catalog also includes general information, subfloor and adhesive recommendations, and abridged specifications Azrock Floor Products Div., Uvalde Rock Asphalt Co., P.O. Box 531, San Antonio 6, Texas. On Free Data Card, Circle 222.

Roof Coatings for Unusual Geometry

New file of specifications and information on "Ply-O-Glas" roof coatings is available. These recently introduced coatings are a combination of chopped glass-fiber, neoprene, and "Hypalon," sprayed by special gun onto a variety of roof surfaces—plywood, concrete, asbestos-cement board, metal, or insulating materials. They are particularly suited to roofs of unusual geometric design. The coatings are applied in layers; thus a final thickness of \( \frac{1}{16} \) " to \( \frac{1}{8} \) " is easily obtained. Defects in the substrate are covered, and spaces between panels are bridged over, eliminating the need for flashing. Data file consists of nine pieces of literature: physical and chemical properties, operation of the spray gun, specifications, recent applications, and chemical resistances. A sample of the roof coating is included. Ply-O-Glas Co. of America, 50 Cutter Mill Rd., Great Neck, N.Y. On Free Data Card, Circle 223.

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... or any installation requiring laundry speed, efficiency and economy

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