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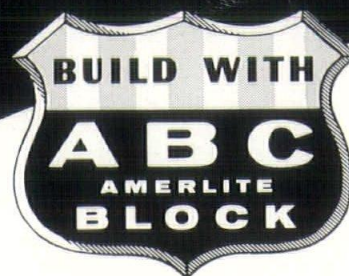
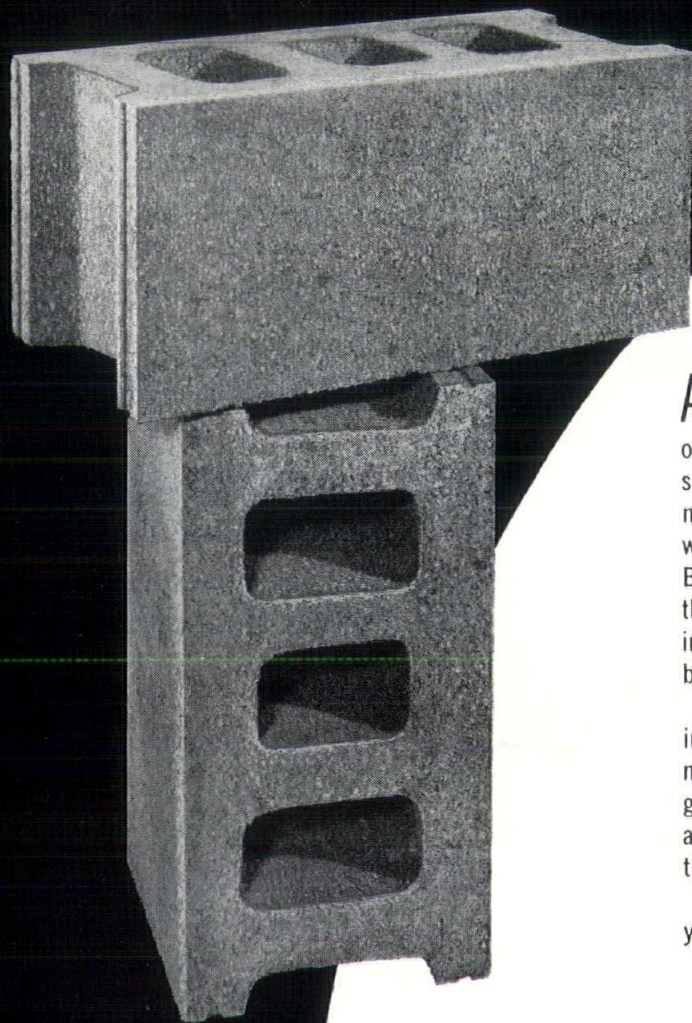
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The 96th Annual AIA Convention promises to be a doubly important and exciting event for the architectural profession: It will take place during a highly significant year for the host city, St. Louis; the professional program will be devoted to a subject vital to the profession and to every city in the country, large and small.

Theme of the professional program will be "The City — Visible and Invisible. Within the framework of this theme, a distinguished roster of speakers will explore the forces that contribute to the character and culture of the community—the forces which the architect must be aware of and respond to in developing man's physical environment. Rather than limiting itself to the architect's role in the development of communities, the professional program will concern itself with the broad view. It will discuss the "atmosphere" within which the architect performs his role.

At this time in our country's history, when the public is showing an increased awareness of its urban surroundings and an increased desire to improve them, it is essential that the architectural profession understand the forces that are shaping our communities. The professional program will be directed toward this aim.

St. Louis is an especially appropriate site for this program. It is celebrating the 200th anniversary of its founding and, like most U.S. cities, it is deeply concerned with its future course. St. Louis is a city of contrasts. It is rich in history, but everywhere there are signs of dynamic growth and development. Our hospitable host chapter has planned several exciting events designed to help conventioners fully enjoy the city. You will not want to miss this outstanding convention. Nationally known leaders in the fields of government, religion, medicine, law and architecture will explore the subtle as well as apparent facets of our communities. Permanent moderator

## The City: Visible and Invisible

*1964 AIA Convention*

*St. Louis, Missouri*

*June 14-18, 1964*

for the entire professional program will be Samuel T. Hurst AIA, dean of the University of Southern California's School of Architecture and Fine Arts. A former dean of the School of Architecture at Auburn University, Dean Hurst also has taught at the Georgia Institute of Technology and Tulane. He delivered a memorable address at the 1959 New Orleans convention.

### SESSION I—The Invisible City

Keynote; The Structure of Law and Justice in the City: Thomas H. Eliot, chancellor, Washington University, St. Louis. Chancellor Eliot has a distinguished background in law, education, government and writing. He practiced law in Boston from 1945 to 1952. He has held teaching posts in law, government and political science at Harvard, MIT and Princeton, and was named chancellor of Washington University in 1962. His government service includes a term as a congressman from Massachusetts in 1941-43, several posts with the U.S. Department of Labor, special assistant to the U.S. ambassador to Great Britain, and executive director of the Massachusetts Reorganization

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## Indiana Architect

Official Journal, Indiana Society of Architects  
and the Northern Indiana Chapter, both Chapters  
of The American Institute of Architects

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**Editor and Publisher**

Don E. Gibson, Hon. ISA Assoc.

**Director of Advertising**

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## Concerning the Cover

The majestic St. Louis GATEWAY ARCH symbolized on this month's cover reflects the attention focused on St. Louis next month for the 1964 AIA National Convention.

The inverted catenary curve designed by the late Eero Saarinen is now rising towards its ultimate height of 630 feet — approximately twice the height of the Indianapolis City-County Building. It is scheduled for completion within a year to help celebrate St. Louis' bicentennial.



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Commission. He is the author of **Governing America: The Politics of a Free People**.

**Health and Psychological Aspects of the City:** Dr. Luther L. Terry, surgeon general, U.S. Public Health Service. Dr. Terry was appointed to his present post in 1961, following more than 25 years of medical practice and teaching. He currently is receiving a great deal of public attention because of his strongly worded statements regarding the effects of smoking on health.

**The Family and Spirit of the City:** Dr. Jaroslav Jan Pelikan, Jr., Titus Street professor of ecclesiastical history, Yale University. An ordained Lutheran minister, Dr. Pelikan is a highly regarded theologian who has written several books and national magazine articles on various religious subjects. He is department editor for religion of the Encyclopaedia Britannica, for whom he has authored articles on the Bible, Christianity, Jesus Christ, Mary and others.

#### **SESSION II—The City and the Body Politic**

**Federal Relationships with the City:** U.S. Senator Harrison Williams of New Jersey. One of the country's most able legislators, noted especially for his effective activities in behalf of better environment, Senator Williams has authored a wide variety of bills dealing with urban development. His original mass-transit bill was passed as part of the Housing Act of 1961, together with his open-space program, which offers incentives for local government to preserve land in crowded areas.

**State Relationships with the City:** Governor John Anderson, Jr., of Kansas. Now serving his second term, Governor Anderson has held public offices since 1946, first as Johnson County attorney, then as state senator from Johnson County, and next as state attorney general. Governor Anderson is chairman of the National Governor's Conference for 1964.

**Local Relationships with the City:** Mayor Raymond Tucker, Hon. AIA, of St. Louis. A mechanical engineer by profession, Mayor Tucker has been instrumental in the development of St. Louis' vast renewal and beautification projects. He served as president of the American Municipal Association in 1960 and is currently vice president of the United States Conference of Mayors. Mayor Tucker was elected an honorary member of the Institute in 1960 for distinguished service.

#### **SESSION III—The Visible City**

Albert Mayer, FAIA, of New York City, architect and city and community planner. Mayer and his firm have designed and built new cities, made city and regional plans, and are engaged in urban renewal projects in the U.S. and abroad. He has lectured at many universities and before many organizations.

Francis D. Lethbridge, AIA, of Washington, D.C., architect. Lethbridge is a partner in the firm of Keyes, Lethbridge & Condon. An expert on the history of architecture and planning in the national capital, he has served as chairman of the AIA Committee on Residential Architecture.

Summary of Professional Program: Chancellor Thomas H. Eliot.

## **Paul Jernegan Elevated to Fellowship**

Mishawaka Architect Paul Frank Jernegan has been honored by the American Institute of Architects with elevation to Fellowship in the Institute. A past president of the Northern Indiana Chapter, AIA, Mr. Jernegan has been extremely active in professional affairs for many years, particularly in the field of civic planning and urban improvement. He was one of the founding members of the Lake Michigan Regional Planning Committee, and for many years has chairmanned the NIC and formerly the ISA's Civic Planning Committees. His work towards establishing a state-supported school of architecture and planning is largely responsible for the present state survey of this need.



**PAUL FRANK JERNEGAN, FAIA**

Other Fellowships awarded in this area include Architect James Allan Clark of Lexington, Kentucky, the present East Central Regional Director, and Architect William Bachman of Hammond, a member of the Chicago Chapter, AIA, and formerly Illinois Regional Director.



# Architecture in the News

Mr. Weber has practiced architecture in Terre Haute for twenty years, and both he and Mrs. Weber have been extremely active in civic affairs both locally and state-wide.

\* \* \*

The Northern Indiana Chapter, AIA, holds its 1964 Annual Meeting Saturday, May 23rd, at the Morris Inn on the campus of the University of Notre Dame. The day's events include an Executive Board Meeting in the morning, annual business meeting and election of officers in the afternoon, and dinner in the evening, with Mr. Lester G. Seubert, AIA, speaking on "Improved Specifications."

The Indiana Society of Architects will hold its 1964 Annual Convention at French Lick again, on October 23, 24 and 25. Details of the program will be announced later.

\* \* \*

Ewing Miller, AIA, chairman of this year's ISA Architectural Scholarship Committee, reports that approximately forty high school seniors have applied for the 1964 \$2,500.00 award. The applications are being processed now with the assistance of Indiana State College in Terre Haute, with Dr. Schomer serving as educational advisor to the committee.

The forty applications will be narrowed to ten finalists, who will be interviewed in Indianapolis this summer, and the recipient selected from among these ten.

Mr. Miller also reports that the current drive for donations to the Scholarship Fund is about \$1,000.00 shy of the annual goal at this time. If you haven't made your pledge yet, now's the time.

\* \* \*

The Building Research Institute has announced a conference on the Restoration and Preservation of Historic Buildings to be held at the Mayflower Hotel, Washington, D.C., June 11-12. The forum, featuring many of the best-known names in the historic preservation field, will discuss the principles and techniques involved in the restoration and preservation of historic buildings. The registration fee is \$15.00, and reservations should be sent to the Building Research Institute, 1725 De Sales St., N.W., Washington, D.C. 20036.

\* \* \*

Announcement has been made of the 1964 \$30,000 James F. Lincoln Arc Welding Design Competition. Entries (which must be submitted by June 1st) must be for any type of structure, building, bridge, tower, dam, tank, dock, etc., in which arc welded steel has been used in whole or in part. The structure must have been designed, fabricated or erected between June 1, 1961, to June 1, 1964. First place award is \$5,000.



WAYNE M. WEBER, AIA

Terre Haute Architect Wayne M. Weber, AIA, has announced his retirement from the personal practice of architecture effective July 1st. A senior partner in the firm of Weber and Curry, Mr. Weber has long been active in ISA affairs, is a former president and is the current treasurer of the Society, and is a member of the national AIA committee on educational facilities.

John A. Curry, AIA, will continue the firm's practice in Terre Haute.

Mr. and Mrs. Weber are moving to Lafayette, Indiana, where Mr. Weber has accepted a part-time position with the firm of Walter Scholer and Associates, an arrangement which will permit the Webers to spend several months each year traveling in this country and abroad and for the practice of Mr. Weber's architectural photography hobby.



As a result of a Resolution submitted to the Legislative Advisory Commission by the Indiana Society of Architects on November 20, 1963, a committee was established to study the feasibility of establishing a State School of Architecture and Planning which consisted of three members of the Senate and three members of the House of Representatives; four members of the American Institute of Architects in Indiana; the presidents of the four state-supported schools; the head of the School of Architecture at Notre Dame; and the dean of the School of Architecture at Illinois Institute of Technology in Chicago.

At the committee's first meeting in December, 1963, the Indiana Society of Architects presented their Resolution and outlined their thoughts on the need for such a school. They also outlined requirements for an accredited school and stated that graduation from a five year college course was required as the requisite before an architect could take the State Board four days written examination for licensure. Accreditation can only come from the National Architectural School Accrediting Board. In addition to graduation, the applicant must also have one year of practical experience.

A general outline of the basic courses required in an Accredited School was submitted.

A survey showed that 157 residents of Indiana were now enrolled in out-of-state schools of Architecture, with the majority being enrolled in the University of Illinois, Michigan University, Illinois Institute of Technology, Miami University of Ohio and Cincinnati University. The only Indiana School of Architecture is at Notre Dame with 187 students, with only five percent of those enrolled being from Indiana (all from the South Bend area).

It was stated that this low enrollment of Indiana residents was attributed to the high cost of a private school and the fact that Notre Dame is a Sectarian School. The Dean of the Notre Dame school thought it very probable that an enrollment of 200 students could be expected in a state-supported School of Architecture and Planning within six years of its inception. The balance of the committee agreed with this estimate. Representatives from each of the four State schools declared they thought Indiana should have such a school to help complete the availability of educational facilities.

#### **Sub-Committees**

To facilitate the study assignment, the committee assigned members to sub-committees as set forth below:

1) Curricula, Location and Size. This committee consisted of Architect Hamilton; Dean Montana of Notre Dame; Vice President Chenea

# School of Architecture

## A PROGRESS REPORT

*by Representative  
M. Maurice Goodnight,  
Chairman, School of  
Architecture Study  
Committee*

of Purdue; Henry Hope, Chairman, Fine Arts Department, Indiana University; Vice President Adkins, Indiana State; Vice President Burkhardt, Ball State; Senator Annakin and Representative Goodnight.

2) Costs and Financing. This committee consisted of all six legislative members; Hatchett, Commissioner of the Department of Administration; Freehafer, Vice President of Purdue; Moulton, Vice President of Indiana State; Clark, Assistant Vice President of Indiana University and Conklin, Business Manager of Ball State.

#### **Findings of Sub-Committees**

**Curriculum** — Although the sub-committee agreed the dean and faculty of a new school should determine the actual curriculum, 15 basic courses were listed as required subjects as follows:

1. English
2. Art
3. Mathematics
4. Engineering Science
5. General Science
6. Social Sciences
7. Civilization and Western Man History
8. Architectural History, four Semesters
9. Architecture (five years of Design)
10. Technology
11. Building Construction
12. Mechanical Engineering Courses
13. Perspective Drawing and Rendering
14. Working Drawings and Specifications
15. Office Practice and Management

Chairman Goodnight asked each of the four school representatives to indicate the number of above listed courses presently being taught at



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their school. Indiana State said they presently have six of the courses being taught with the other nine being possible; Ball State's answer was the same as Indiana State; Indiana University said that nine courses were presently being taught and the other six could be added; Purdue University also was teaching nine related courses and the other six could be added.

**Size** — It was agreed that the ultimate school for 200 students would be a satisfactory size with an estimated breakdown in classes as follows:

- First Year—60
- Second Year—45
- Third Year—35
- Fourth Year—32
- Fifth Year (to be Graduated)—28.

The ideal faculty-student ratio would be twelve students to one faculty member and should not go higher than 15 to one. Space requirements for such a school would be a building of approximately 40,000 square feet. Such a building would cost, at present prices, approximately \$1 million.

**Location** — All four school representatives said they would be willing and able to add such a school to their curriculum.

Indiana State and Ball State each stated that their schools were growing, multi-purpose institutions with only about 40% of their enrollment specializing in the field of education. Both schools indicated their desire of enlarging to a university status, rather than the present impression of being only Teachers Colleges.

Purdue stated their schools of Engineering were well known and their Art department was rapidly growing and it would be a relatively simple matter to add a School of Architecture and Planning.

Indiana University stated their Art department was very broad and recognized as one of the best in the nation and they could add courses they did not presently offer without too much difficulty.

The possibility of establishing such a school in Indianapolis was discussed, but dropped by this sub-committee as not feasible.

It was agreed the committee, as a whole, could not decide on a recommended location of a school with all four State schools being interested. Therefore, a sub-committee was appointed, with no members being from a State school, to visit the campuses of the four schools and also the City of Indianapolis and to report back their recommendations of the most practical location.

The sub-committee is composed of the following: Dean Danforth, Dean Montana, Architect Hamilton, Architect Schultz, Senator Ullrich and Representative Goodnight.

The Indiana Society of Architects also stated that they would ask the head of their National Educational Committee to join in this survey and they would pay the expense of all the committee members with the exception of the two Legislative members.

The following schedule was arranged for this subcommittee:

- June 10, Purdue University
- June 11, Indiana State College
- June 29, Indiana University
- June 30, Ball State College
- July 1, Indianapolis

The sub-committee was mandated to report their number one choice to the committee on July 24. The committee agreed to accept the sub-committee's recommendations and will adopt that recommendation in their final report.

**Costs** — At the first meeting of the sub-committee on costs and financing, the following estimates were established.

- Building—\$1,000,000
- Furnishings—\$100,000
- Library—\$25,000 (Initial cost)
- Library Books and Periodicals—\$5,000 to \$6,000 Annually
- Audio Visual Materials—\$1,000
- Budget for faculty, clerical help, building operation, general maintenance, etc., etc.
- First Year—\$30,000 (Dean, Secretary and Supplies)—No Building)
- Second Year—\$40,000 (Addition of full Professor to above—No Building)
- Third Year—\$70,000 (Additional Staff—First Year Building Available)
- Fourth Year—\$200,000 (Additional Staff and Maintenance)
- Fifth Year—\$250,000
- Sixth Year—\$300,000 (and continuing for subsequent years)

**Financing** — Each school indicated if a School of Architecture were to be added to their curricula, they would request additional appropriations to their regular budget for this school as was the case of the School of Veterinary Science at Purdue. They also agreed that the dean should be hired at least two years before the students were accepted for this school and to start searching for faculty members as good men are in short supply. It also was agreed the costs outlined above would have to be borne by the State as tuition fees would be used for other costs not included in those outlined.

At the April meeting Fred McCarthy, Director of Government Research of the Indianapolis Chamber of Commerce, appeared before the committee and read a letter from their Executive Vice President, Carl Dortch, outlining the



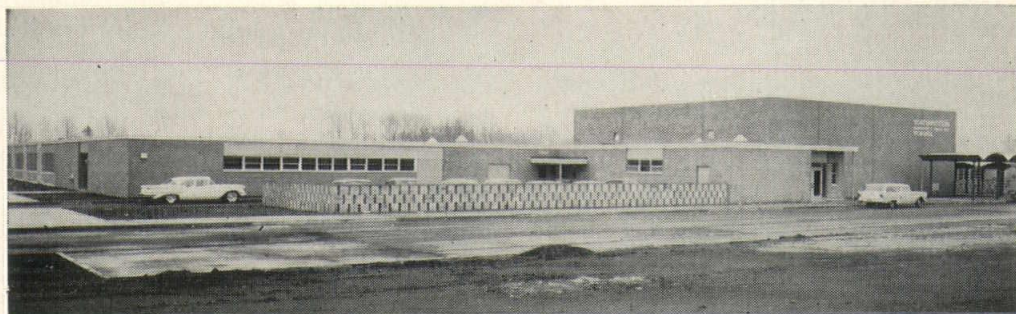
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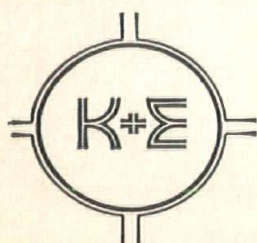
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## Ohio River Outing

Members of the Kentucky Chapter, Producers' Council, Inc., will sponsor a dinner-dance aboard the Belle of Louisville, June 6, in an effort to raise funds for a Scholarship Foundation for the School of Architecture, University of Kentucky. It is hoped that the fund-raising event will become an annual affair and contribute to the development of upcoming young architects studying at the university.

Representatives of the faculty, University of Kentucky, Kentucky State Purchasing & Engineering Departments, Kentucky Society of Architects, Professional Engineers and the Associated General Contractors all have indicated a great deal of enthusiasm and interest in establishing this Scholarship Foundation, and many plan to attend.

Boarding will be 5:30 to 6:30 P.M., at the wharf 4th & River Road. She embarks at 6:30 P.M. for the upriver cruise. Dinner will be served at 7:00 P.M. Dancing and "Las Vegas Nite" entertainment will continue after the Belle makes its landfall at 10:30 P.M.

An auction will complete the evening, with artwork and prizes going to highest bidders.

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# WIC Scholarship Announced

The National Association of Women in Construction has announced the winner of their first annual four-year NAWIC Scholarship Award. Cornelia Ann Cronin of Revere, Massachusetts, will enter Catholic University at Washington, D.C. in September, 1964, and will major in architecture.

The Trustees of the NAWIC Founders Scholarship Foundation decided to award a second scholarship this year. Robert Allen Larson of St. Petersburg, Florida, was the recipient, and will enter Illinois Institute of Technology in September and plans a career as an architect.

Both of these students excelled in scholastic ability, had won many honors during their high school careers and needed financial assistance to continue their education.

The NAWIC Founders Scholarship Foundation was established in September 1963. The purpose of the Foundation is to assist young people who wish to further their education in subjects pertaining to the construction industry and who reside in cities where there is a Chapter of Women in Construction. Management and control of the Foundation is vested in three Trustees, the three immediate Past Presidents of the National organization: Mrs. Lois J. Acker, Senior Trustee, Dallas, Texas; Mrs. Clara Wilkerson, Little Rock, Arkansas; and Miss Florence Creighton, St. Louis, Missouri. The Custodian for the Trust is appointed by the President and is a ministerial officer. Miss Grace W. Dollens of Indianapolis is the Custodian.

Funds for awarding of these scholarships are obtained through individual member contributions, Chapter projects and contributions made by friends of the National Association of Women in Construction.

Miss Helen Boston, Indianapolis Home Show,

Inc., is president of the Indianapolis Chapter of Women in Construction.

Any student interested in a NAWIC Merit Scholarship for September 1965 should contact their high school principal at once.

Architect Philip Johnson, Social Critic Cleveland Armory, Author Peter Blake and Architect Eliot Noyes are among the national figures participating in "Design '64: Directions and Dilemmas" at the 115th Annual International Design Conference in Aspen, Colorado, June 21-27. The conference will concern itself with the freedoms and restraints in design, architecture and visual communication.

Further information and reservations are available from the International Design Conference, Box 1247, Aspen, Colorado. Registration fee: \$85.00.

Ralph Johnson of Greenwood and Charles Deck of Indianapolis, have joined the sales staff of Linaburry Brick & Block Company, Indianapolis. Mr. Johnson will be calling on architects, masons and general contractors, and Mr. Deck will be working in the residential contractor field.

ISA members attending the AIA National Convention next month are asked to contact ISA President Al Porteous, AIA, in St. Louis during the convention for delegate credential cards. The ISA is allotted twelve delegates, and the credential cards must be presented at the time of registration.

The ISA delegation will caucus during the convention to discuss the proposals to be voted upon at the convention.

Entries for the 5th Annual Architectural Awards of Excellence Competition sponsored by the American Institute of Steel Construction are reminded that June 10th is the deadline for the submission of entries.

14  
5-64

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# concrete slab design

a.i.a. file: 4-a

Prepared as a service to architects by Portland Cement Association

Clip along dotted line

## Concrete slab design for long-service floors. Example:

assume that a slab is to be designed of 5,000 psi concrete for an industrial plant floor. There will be considerable traffic with trucks having loads of 10,000 lb. per wheel. Each wheel has a contact area of about 30 sq. in.

Assume that operating conditions are such that impact will be equivalent to about 25 per cent of the load. The equivalent static load will then be 12,500 lb. An approximate formula for the allowable flexural tensile

stress of concrete is  $4.6 \sqrt{f'_c}$  (in which  $f'_c = 28$ -day cylinder strength). For 5,000 psi concrete, the allowable strength is then:

$$4.6 \sqrt{5,000} = 325 \text{ psi.}$$

The allowable loads in chart at right are based on a stress of 300 psi, so the design load must be corrected by  $300 \div 325$  which gives 11,500 lb. From chart a load of 11,500 lb. on an area of 30 sq. in. requires a slab about  $7\frac{1}{2}$  in. thick.

## MIX DESIGN DATA FOR ORDERING CONCRETE

W/C in gal. per bag	28 day cylinder strength (psi)	Slump (in.)	Air content (%) <sup>*</sup>	Min. cement content in bags per cu. yd.
5½-6½	3500-4500	2-4	5 ± 1 or 6 ± 1	5½
4-5½	4500-7000	1-3	5 ± 1 or 6 ± 1	6
4-5½	4500-7000	1-3	5 ± 1 or 6 ± 1	6

## CONCRETE FINISH

Steel trowel

Hard steel trowel by power and hand equipment.

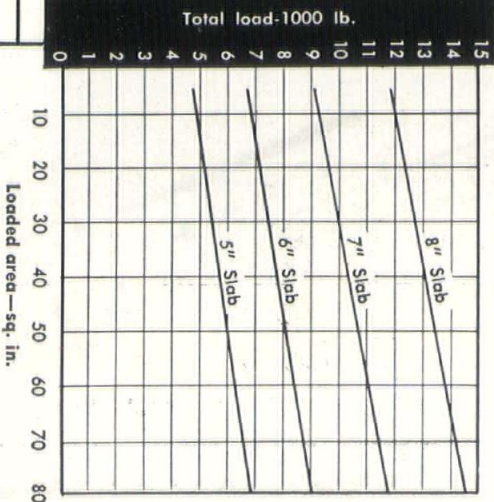
Dry shake of extra hard aggregate added to surface immediately before power floating begins.

Surface leveled by floating, but textured to insure bond to topping.

Special power floats, repeated hand troweling for smooth, dense abrasive resistant surface. Special extra hard aggregates are used.

## requirements for floors on ground

BUILDING TYPE	TRAFFIC	MIX DESIGN DATA FOR ORDERING CONCRETE					CONCRETE FINISH
		W/C in gal. per bag	28 day cylinder strength (psi)	Slump (in.)	Air content (%) <sup>*</sup>	Min. cement content in bags per cu. yd.	
Offices, schools, churches, hospitals, commercial bldgs.: where floor will be covered with tile, linoleum, etc.	Predominantly foot traffic.	5½-6½	3500-4500	2-4	5 ± 1 or 6 ± 1	5½	Steel trowel
Same as above except concrete is wearing surface. Also for service in light industrial buildings.	Foot traffic and pneumatic tired vehicles.	4-5½	4500-7000	1-3	5 ± 1 or 6 ± 1	6	Hard steel trowel by power and hand equipment.
Industrial or commercial buildings subject to heavy or abrasive use.	Foot traffic and pneumatic tired vehicles.	4-5½	4500-7000	1-3	5 ± 1 or 6 ± 1	6	Dry shake of extra hard aggregate added to surface immediately before power floating begins.
TWO COURSE HEAVY DUTY	Heavy industry such as foundries, steel mills, heavy manufacturing, also any industrial or commercial building with highly abrasive conditions.	BASE COURSE	5½-6½	2-3	5 ± 1 or 6 ± 1	5½	Surface leveled by floating, but textured to insure bond to topping.
		STEEL WHEELED VEHICLES. Heavy abrasive use.	3½-4	8000-12000	Zero	Not required	7½



## Maximum Wheel Loads for Industrial Floors

The chart above is based on flexural tensile stress of 300 psi. For other stresses multiply loads by ratio of 300 to stress used. For an allowable tensile stress of 300 psi, compressive strength of about 4,300 psi is generally required.

For additional literature on design of concrete slab floors, or other concrete construction, just send a request on your letterhead.

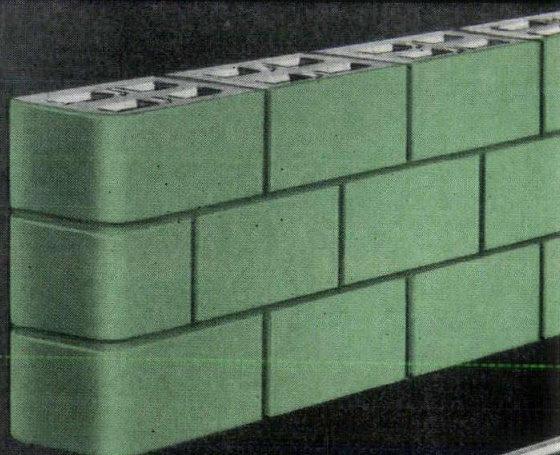
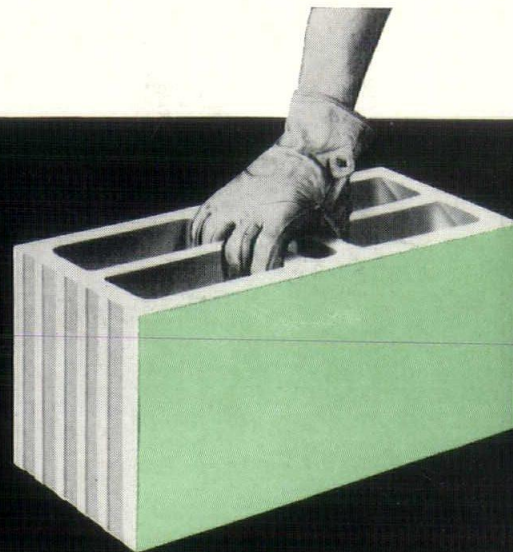
## PORTLAND CEMENT ASSOCIATION

612 Merchants Bank Bldg., Indianapolis 4, Ind.  
A national organization to improve and extend the uses of concrete

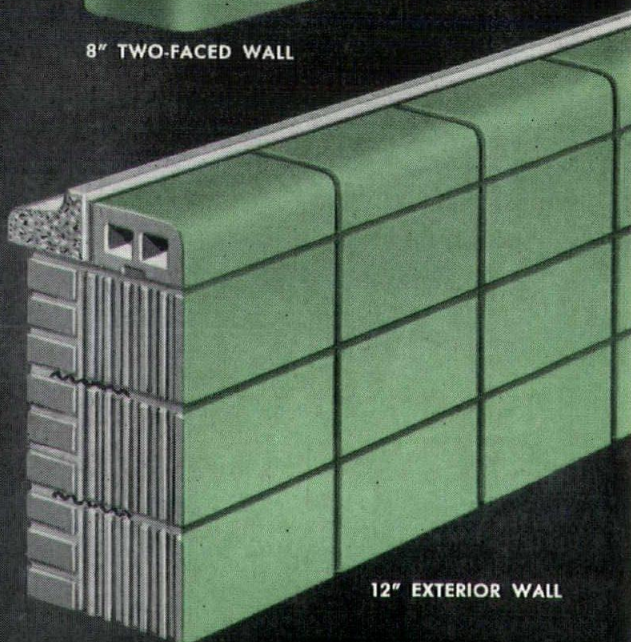
\*For concrete with 1½ in. max. aggregate use 5 ± 1% air content; for ¾ in. max. aggregate use 6 ± 1%.  
\*\*Topping mix must be mixed in piddle type mixer—generally not available from ready-mix plants.



# new STARK Super- Tile



8" TWO-FACED WALL



12" EXTERIOR WALL

## SUPER SIZE

8" x 8" x 16" size offers faster installation, less handling, fewer units and an 8" wall finished both sides. New Super-Tile conforms to modular dimensioning with bed depth tolerances controlled to  $\frac{1}{16}" \pm$  or  $\frac{3}{32}"$  overall.

## SUPER ECONOMY

Wall installation costs can be reduced by as much as 50% . . . Both finished wall faces are set at the same time. With fewer units in the wall, take-off, estimating, detailing and handling time is also proportionately reduced.

## SUPER VERSATILITY

Super-Tile can be glazed two sides in the same color or in different colors. Vertical coring provides for easy cutting to half units as well as offering units with finished ends. Accurate sizing means narrower, neater more consistent joints. Requirements for other than Super-Tile bullnose, double bullnose, square corners and butterfly units can be met with standard 8W series units.

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