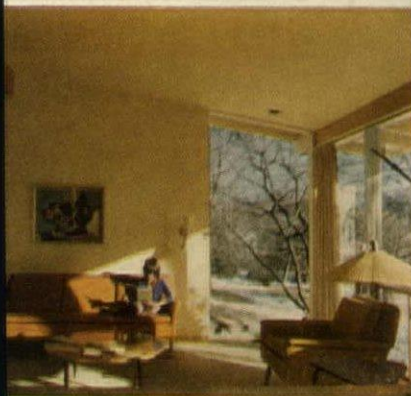
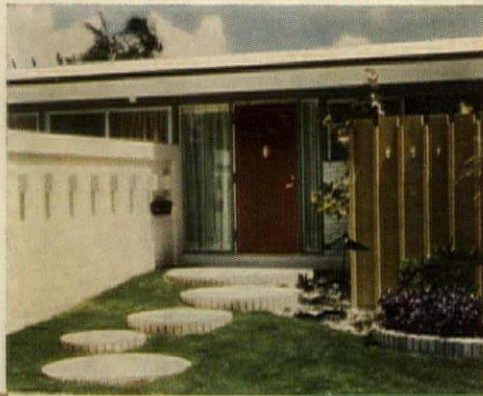


# ARCHITECTURAL RECORD



ty of the year's finest architect-designed  
s shown in 205 photographs, plans and drawings

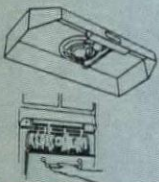
May, 1959



RECORD HOUSES OF 1959

Library of the  
Minneapolis School of Art

Every Homemaker Wants These  
**5 NuTone**  
**Built-Ins**  
*...for the Modern Kitchen*



1

Hood-Fans for Oven and Range to trap all excess heat, grease and steam.



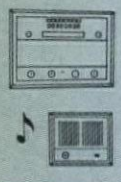
2

NuTone's Exhaust Fans get rid of cooking odors to keep kitchen air fresh.



3

NuTone Door Chimes make any home more inviting with a "friendly greeting."



4

NuTone's Intercom-Radio is a step-saver. Fills the home with radio music.



5

NuTone's Food Center . . saves space. One built-in motor for SIX appliances.

↑ NuTone Range Hood-Fan above cooking surface • NuTone Food Center built-into the counter  
 ↓ NuTone Door Chime & Clock • NuTone Intercom-Radio on wall • NuTone Hood-Fan



FREE..Deluxe Catalogs in Binder. Write to..  
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# ARCHITECTURAL RECORD

MID-MAY 1959

PREFACE	65
TWENTY HOUSES OF THE YEAR	
<i>A Synthesis for Good Living</i> , by Ronald Gourley, JOSÉ LUIS SERT, Architect and Owner. Location: Cambridge, Massachusetts	66
<i>Five Levels Give Dramatic Sequence of Spaces</i> . PAUL RUDOLPH, Architect. Mr. and Mrs. F. A. Deering, Owners. Location: Casey Key, Florida	76
<i>Gardens Afford Private Views</i> . BOLTON AND BARNSTONE, Architects. Mrs. David Lindsay, Owner. Location: Houston, Texas	80
<i>Texture and Warmth on a Budget</i> . VICTOR A. LUNDY, Architect. Mr. and Mrs. Joseph D. Dudley, Owners. Location: Sarasota, Florida	84
<i>Exuberant Shapes and Details Highlight a New Design Direction</i> . RICHARD L. DORMAN AND ASSOCIATES, Architects. Location: Encino, California	88
<i>Great Order Brings Great Freedom</i> . WILLIAM J. CONKLIN AND DAVIS, BRODY & WISNIEWSKI, Architects. Mr. and Mrs. Bowen Sterling, Owners. Location: Peeksville, New York	94
<i>A Setting for Relaxed Comfort</i> . A. L. AYDELOTT & ASSOCIATES, Architects. Mrs. George Goldsmith, Owner. Location: Helena, Arkansas	100
<i>Comfort and Elegance in Tandem</i> . ELIOT NOYES AND ASSOCIATES, Architects. Mr. and Mrs. Robert Bernhard, Owners. Location: Port Chester, New York	104
<i>A Happy Merger of Site, Program and Form</i> . ROBERT BILLS-BROUGH PRICE, Architect. Mr. and Mrs. T. Harbine Monroe, Owners. Location: Tacoma, Washington	108
<i>Simple Details Pare City House Costs to Minimum</i> . GYO OBATA, of HELLMUTH, OBATA & KASSABAUM, Architect and Owner. Location: St. Louis, Missouri	112
<i>For the Casual Life: Six Rooms With a View</i> . GOETZ & HANSEN, Architects. Mr. and Mrs. Robert L. Goetz, Owners. Location: Lafayette, California	116
<i>Peaked Roofs and Colored Glass Enliven the Woods</i> . EDWARD LARRABEE BARNES, Architect. Mr. and Mrs. Donald Miller, Jr., Owners. Location: Chappaqua, New York	120
<i>Split-Level Opens Vistas in Confined Lot</i> . CURTIS & DAVIS AND ASSOCIATED ARCHITECTS AND ENGINEERS, Architects. Mr. and Mrs. Julian Steinberg, Owners. Location: New Orleans, Louisiana	124

## COVER:

MILLER HOUSE, *Eye*, N. Y.: Edward Larrabee Barnes, architect. Ben Schnall photo.  
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continued on next page

# Staff of Architectural Record

<i>Small House Offers Privacy.</i> GRIDER & LA MARCHE, Architects. Builder House for Ralph Sherman. Location: Boise, Idaho	128
<i>Unity for a Flexible Plan.</i> ULRICH FRANZEN, Architect. Mr. and Mrs. George Weissman, Owners. Location: Rye, New York	132
<i>A Screened Room Doubles Space.</i> JOSEPH N. SMITH, Architect. Mr. and Mrs. Robert Uricho, Jr., Owners. Location: Miami, Florida	136
<i>Pavilion Focuses on the Sea.</i> CRAIG ELLWOOD, Designer. Dr. and Mrs. Victor M. Hunt, Owners. Location: Malibu, California	140
<i>Time-Honored Means Give a Fresh Tradition.</i> HUGH STUBBINS & ASSOCIATES, Architects. Location: Rhode Island	144
<i>Budget House for a University Site.</i> RALPH RAPSON, Architect; DOUGLAS BAIRD, Associate. Professor and Mrs. W. G. Shepherd, Owners. Location: St. Paul, Minnesota	150
<i>A New Style for Contemporary Cape Cod.</i> THE ARCHITECTS COLLABORATIVE, Architects. Mr. and Mrs. Carl Murchison, Owners. Location: Provincetown, Massachusetts	154
DESIGNERS OF RECORD HOUSES OF 1959	160
NEW HOMEBUILDING MATERIALS AND TECHNIQUES, by Leonard Haeger	7
A REPORT ON HOME FURNISHINGS, by Betty Pepis	11
NEW DIRECTIONS FOR HOME LIGHTING, by John Vaisey	15
WARM-AIR HEATING SYSTEMS, by James D. Nolan	21
HYDRONICS OR HOT-WATER HEATING, by William Dukes	24
EQUIPMENT FOR KITCHENS, BATHS AND LAUNDRIES by C. F. Craigie	26
PRODUCTS FOR THE HOUSE	176
REFERENCE READING ABOUT PRODUCTS FOR THE HOUSE	216
INDEX TO ADVERTISING	220

OF PARTICULAR ASSISTANCE TO THE EDITOR AND STAFF in preparation of this issue were: Herbert L. Smith, Jr., editor-in-charge; Grace M. Anderson, Associate Editor; Marjorie B. Noyes and Barbara L. Cash, cover and page design and drawings; Margaret F. Farmer, products and literature; Florence A. van Wyck, editorial production; Julia Lee, art production.

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She'll feel like a queen in your new home!

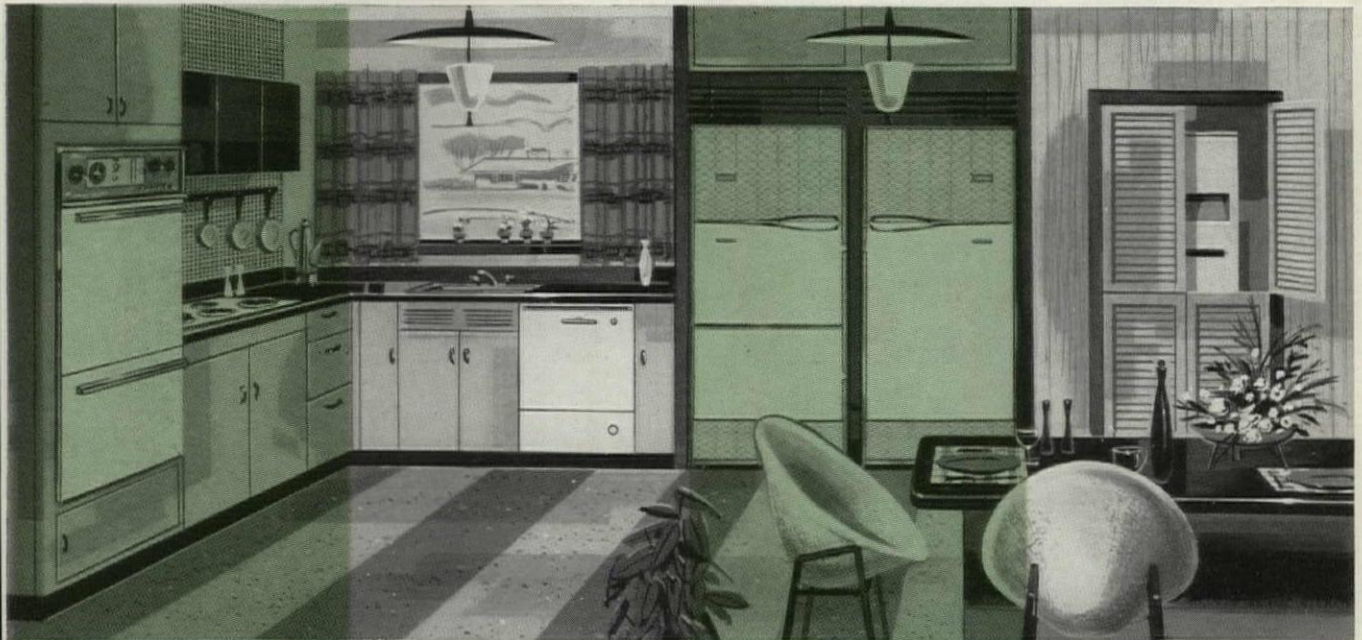
# 4 pages to help you plan right now ... appliances ... dimensions ... ideas!

This 1959 Frigidaire Planning Guide is designed to help you plan four of the most important centers in your home—the Food Preparation Center, Refrigerated Food Center, Kitchen Clean-Up Center, and the Comfort Conditioning Center.

This same Planning Guide, with message directed to your home-buying prospects, appears in seven (7) lead-

ing consumer home building annual and semi-annual magazines. It tells them to plan their kitchens with the Frigidaire features they like best. Then the ad suggests they bring their sketch or list to you, and you will help them make their dreams come true. This is another way of directing more "home-buying" prospects to you through our national advertising.

Your built-in kitchen can start with any of these matched cooking, clean-up and storage centers. Full-home comfort, too.



**Food preparation center**



**Kitchen clean-up center**



**Refrigerated food center**



**Comfort conditioning center**

Advanced appliances . . . designed with you in mind. There's a revolution going on in the kitchen! Kitchens of today are less and less just a place to get meals, and more and more a kind of "family room." Frigidaire advanced built-ins and free-standing appliances are designed with this in mind—fit this new concept perfectly with styling, quality and features to keep your kitchen years ahead!

In styling, the slim, clean, unbroken lines really fit any standard wood or steel cabinets. Choose from 5 Kitchen Rainbow Colors: Sunny Yellow, Mayfair Pink, Turquoise, Charcoal Gray, Aztec Copper—plus White and even Satin Chrome on most models.

In performance, the "Drop-Leaf Door" Wall Oven and "Frost-Proof" Refrigerator-Freezer, for example, are Frigidaire exclusives and are the

envy of the neighborhood wherever they're installed.

Cost? Much less than you'd imagine for appliances so fine. Center-at-a-time planning helps bring built-in kitchens within the reach of even modest incomes.

Local service through GM factory-trained Frigidaire dealers is available everywhere and designed, like the appliances, with you in mind.

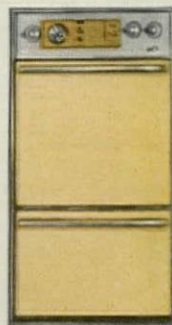
# Food Preparation Centers

with drop-leaf door wall ovens and counter-top or fold-away cooking!



**Um-m-m, it's dream cooking at its best** with the new Frigidaire RBZ-99 Custom Imperial Double Oven with Drop-Leaf Doors. So wonderful for everyday cooking and particularly for holiday meal making on a grand scale. Two spacious ovens! Easy to use! Easy to clean! And just a step away is the color-matching Built-In Cooking Top complete with Speed-Heat and Heat-Minder Units. Can be installed in any convenient work counter or top.

## FRIGIDAIRE WALL OVENS



Model RBZ-99

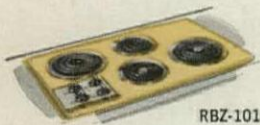
New large capacity double and single oven models  
Exclusive, new Drop-Leaf Door(s) —open for shelf space—all the way down for easiest cleaning  
Exclusive Radiant Wall Spatter-Free Broiler Grill (RBZ-99)  
Meat Tender Control (RBZ-99)  
Optional Automatic Rotisserie (RBZ-94, RBZ-99)  
New, optional glass-door models (RBGZ-94, RBGZ-99)  
Easy-reach, easy-clean "Eye-Level" Control Panel  
Connected load: Models RBW-90 (5.3 kw); RBZ-93, -94 (3.9 kw); RBZ-99 (7.8 kw)  
French Door Wall Oven (RBW-90) also available in Satin Chrome

Model	Exterior Dimensions—Inches		
	Height	Width	Depth
Custom Imperial †RBZ-99*	44 $\frac{3}{4}$	23 $\frac{3}{4}$	23 $\frac{3}{4}$
Imperial †RBZ-94*	29 $\frac{3}{8}$	23 $\frac{3}{4}$	23 $\frac{3}{4}$
DeLuxe †RBZ-93	29 $\frac{3}{8}$	23 $\frac{3}{4}$	23 $\frac{3}{4}$
Imperial RBW-90	31 $\frac{3}{8}$	23 $\frac{3}{4}$	23 $\frac{3}{4}$
Wall Opening Dimensions—Inches			
Custom Imperial †RBZ-99*	44	21 $\frac{1}{2}$	23 $\frac{3}{4}$ ††
Imperial †RBZ-94*	28 $\frac{1}{2}$	21 $\frac{1}{4}$	23 $\frac{3}{4}$ ††
DeLuxe †RBZ-93	28 $\frac{1}{2}$	21 $\frac{1}{4}$	23 $\frac{3}{4}$
Imperial RBW-90	29	20 $\frac{3}{4}$	23 $\frac{3}{4}$ ††

\*Specifications also apply to optional glass door models RBGZ-99 and RBGZ-94 †Choice of 5 colors and Satin Chrome ††For optional Rotisserie, add  $\frac{1}{4}$ " on RBZ-99 and RBZ-94; 1" on RBW-90



RBZ-84



RBZ-101

## No stooping or bending over

with this cooking arrangement—everything's at the height of convenience. The RBZ-94 Imperial Oven, shown on right, shares many fine features found in the double-oven model.

Exclusive Fold-Back Surface Units, shown in use, actually fold back out of the way to give more usable counter space. Automatic shut-off; may be folded back when hot.

Built-in Cooking Tops are attractively styled. Available in 5 colors and satin chrome.

## FRIGIDAIRE FOLD-BACK SURFACE UNITS and COOKING TOPS

### Fold-Back Surface Units

Temperature controlled Heat-Minder Unit (RBZ-82, RBZ-84)  
Super fast Speed-Heat Unit (RBZ-82, RBZ-84)  
Available in combination Stainless Steel and Satin Chrome finish.  
24" and 48" models  
Connected load. Models RBZ-80, -81 (4.1 kw); RBZ-82 (3.9 kw); RBZ-83 (8.1 kw); RBZ-84 (7.9 kw).

Model	Dimensions—Inches	
	Fold-Back Surface Units	
	RBZ-80, 81, 82	RBZ-83, 84
Width—overall	23 $\frac{3}{8}$	47 $\frac{3}{4}$
—each fold-back section	20 $\frac{1}{4}$	20 $\frac{1}{2}$ (2)
—control panel	3 $\frac{1}{2}$	3 $\frac{1}{2}$ (2)
Height—overall	14 $\frac{3}{8}$	14 $\frac{3}{8}$
—units in operating position	4	4
Depth—closed position	5 $\frac{1}{8}$	5 $\frac{1}{8}$
—operating position	17 $\frac{3}{8}$	17 $\frac{3}{8}$

### Built-in Cooking Tops

One-piece top with raised edges to catch spillovers  
Temperature controlled Heat-Minder Unit (RBZ-101)  
Super fast Speed-Heat Unit (RBZ-101)  
Can be installed flush or with optional Hudee ring mounting  
Budget-priced model in Satin Chrome finish for 24" cabinets also available (RBA-102)  
Connected load: Models RBZ-100 (8.1 kw); RBZ-101 (7.9 kw); RBA-102 (7.0 kw).

Model	Dimensions—Inches	
	Cooking Tops	
	RBZ-100, 101	RBA-102
Cooking top—width	32 $\frac{1}{4}$	23
—depth	20 $\frac{1}{4}$	21
—height	$\frac{3}{8}$	$\frac{3}{8}$
Counter-top opening—width	31	22 $\frac{3}{4}$
—depth	19	20
Depth below counter top	4 $\frac{1}{2}$	3 $\frac{3}{8}$

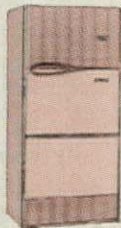


# Refrigerated Food Centers

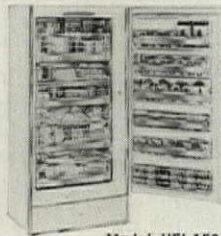
with finest in food-keeping features and freezing without defrosting!



**Complete design flexibility** of the new Frigidaire Refrigerators and Freezers permits sliding them in place as blend-ins or, as shown here, recessed in one of many practical, decorative ways to give the "built-in look." Stock framing kit (#199) available for 12, 13, and 14 cu. ft. models.



Model FP-142-59



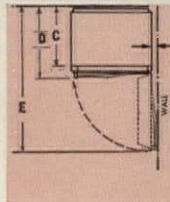
Model UFI-150-59

## FRIGIDAIRE REFRIGERATORS

- Frost-Proof Freezing Section (FP-142-59, FP-124-59)
- Flowing Cold in refrigerator section (FP-142-59, FP-124-59, CP-144-59)
- Automatic Defrosting in refrigerator section (except D-13-59, D-11-59)
- Completely separate Zero Zone Food Freezer (except D-13-59, D-11-59)
- Flip-Quick Ice-Ejector (FP-142-59, FP-124-59, CP-144-59—optional in all other models)
- Roll-to-You Shelves (except FD-104-59, D-13-59, D-11-59)
- Three 9 cu. ft. Super Models also available

## FRIGIDAIRE UPRIGHT FREEZERS

- Sheer Look plus feminine lacework styling
- Full-Width Shelves—3 Refrigerated Shelves; 1 Removable
- Full-Width Basket Drawer
- 5 Full-Width Removable Door Shelves (UFD-123-59 has 4)
- Adjustable Cold-Control
- Built-in Door Lock (UFI-150-59)
- Available in White Dulux
- 20 cu. ft. Upright Model and two Chest-Type Models also available



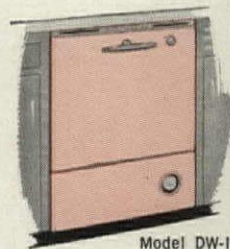
Refrigerator Model	Dimensions—Inches						Capacity Cu. ft.	Shelf Area Sq. ft.	White	Choice of 5 Colors	Freezer Model	Imperial			
	A	B	C	D	E	F*						UFI-150-59	DeLuxe UFD-150-59	DeLuxe UFD-123-59	
Frost-Proof FP-142-59	69 $\frac{3}{4}$	32	25	29	57 $\frac{1}{4}$	2 $\frac{1}{2}$	14.2	24.8	x	x	Dimensions—Inches	A	69 $\frac{3}{4}$	69 $\frac{3}{4}$	64
Frost-Proof FP-124-59	64	32	25	29	57 $\frac{1}{4}$	2 $\frac{1}{2}$	12.4	18.8	x	x		B	32	32	32
Cold Pantry CP-144-59	69 $\frac{3}{4}$	32	25	29	57 $\frac{1}{4}$	1 $\frac{3}{4}$	14.4	24.7	x	x		C	26	26	25
Imperial FI-122-59	64	32	24 $\frac{1}{2}$	28 $\frac{1}{2}$	56 $\frac{3}{4}$	1 $\frac{3}{4}$	12.2	20.5	x	x		D	30	29 $\frac{7}{8}$	28 $\frac{7}{8}$
Imperial FI-123-59	64	32	24 $\frac{1}{2}$	28 $\frac{1}{2}$	56 $\frac{3}{4}$	2 $\frac{1}{2}$	12.3	20.3	x	x		E	58 $\frac{1}{4}$	58 $\frac{1}{4}$	57 $\frac{1}{4}$
DeLuxe D-13-59	64	32	24 $\frac{1}{2}$	28 $\frac{1}{2}$	56 $\frac{3}{4}$	2 $\frac{1}{2}$	12.8	19.6	x			F*	2 $\frac{3}{8}$	1 $\frac{3}{8}$	1 $\frac{3}{8}$
DeLuxe FD-104-59	64	28	24 $\frac{1}{2}$	28 $\frac{1}{2}$	52 $\frac{3}{4}$	2 $\frac{1}{2}$	10.4	16.7	x		Capacity Cu. Ft.		15.0	15.0	12.3
DeLuxe D-11-59	64	28	24 $\frac{1}{2}$	28 $\frac{1}{2}$	52 $\frac{3}{4}$	2 $\frac{1}{2}$	10.8	16.4	x		Shelf Area Sq. Ft.		15.4	15.7	14.7

\*Next to wall at hinge side of door.

Models FP-142-59, FP-124-59, CP-144-59 and FI-122-59 available in white porcelain enamel.

# Kitchen Clean-up Centers

with sparkle-clean action dishwashers and faster, quieter food disposers!



Model DW-IUZ

## FRIGIDAIRE DISHWASHERS

- Holds up to 48% more than other comparable models checked—12 complete place settings (NEMA Standards), plus 15 other pieces
- Sparkle-cleans more dishes per load
- 2 washes—each with fresh detergent (DW-IUZ, DW-IFZ, DW-ISZ)
- 3 rinses—Spots-Away liquid automatically added to third rinse (DW-IUZ, DW-IFZ, DW-ISZ)

Model	DeLuxe	Custom Imperial		
	Under-Counter DW-DUZ	Under-Counter DW-IUZ	Free Standing DW-IFZ	Sink Combination DW-ISZ
Height—overall	34 $\frac{1}{4}$	34 $\frac{1}{4}$	40	40
—work surface	—	—	36	36
Width	23 $\frac{1}{8}$	23 $\frac{1}{8}$	24	48
Depth—counter top	—	—	25 $\frac{1}{4}$	25
—over hardware	25 $\frac{1}{2}$	25 $\frac{1}{2}$	26 $\frac{3}{4}$	26
—door open	44 $\frac{3}{4}$	44 $\frac{3}{4}$	46	45 $\frac{1}{4}$
Choice of White and 5 colors	x	x	x*	x**
Satin Chrome	x	x		

\*Side panels and wood top to convert under-counter models into colored free-standing models available as accessories. \*\*White and 3 colors.

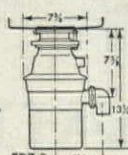
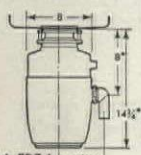


## FRIGIDAIRE DISPOSERS

- 30 to 35% faster—with new dissolving action
- Quieter—insulated jacket (FDZ-1) rubber cushioned connections
- Disposes of all food wastes including corn husks, celery, fruit rinds



Model FDZ-1 7 $\frac{1}{2}$ "



FDZ-3 5 $\frac{1}{2}$ "

**End-of-counter or under-counter** installation of 24" models is possible with the new Frigidaire Dishwashers that wash, dry and store sparkle-clean a full day's dishes for family of four. New Food Waste Disposer is perfect team-mate for your dishwasher. Speeds clean-up time, faster, quieter, safer.

# Comfort Conditioning Centers

featuring full-home, year-round comfort or add-on cooling only for individual rooms or the entire house!



Today, your home-buyers can enjoy clean, healthful air conditioning all year-round in your homes at less cost, thanks to the new Frigidaire residential air conditioning line. There's a unit to take care of practically every type of home. Included are Room Air Conditioners with exclusive Dehumidi-Coil designed for perfect "Dry-Cooling" to lick both heat and humidity. Frigidaire also has a complete line of furnaces.

Described here are a few of the more popular heating and air conditioning units. Your Frigidaire dealer will be glad to review your specific air conditioning requirements and select the best system to fit your homes and your prospects' budgets.

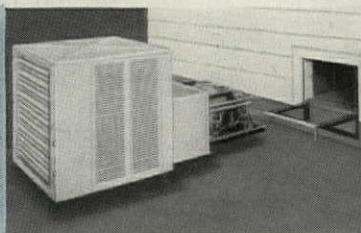
### Newest way to feature air conditioning!

Here's a completely new concept in full-home air-conditioning—the Frigidaire Trans-Wall system! It's easy to provide for low cost air conditioning now... or later—with every home you build! The all-in-one Trans-Wall Unit is a completely self-contained air-cooled package with twin Super Meter-Miser Compressors (only one operates during mild weather to give more efficient cooling at lower cost). With the furnace located at an outside wall of the house and a special coil housing in place, all you do is slide Trans-Wall Unit through wall during construction... when you close the sale... or at any later date the home-buyer chooses. It slides in like a drawer. Cuts installation costs up to 50%. Trans-Wall system utilizes furnace blower and ductwork.

### FRIGIDAIRE TRANS-WALL UNIT

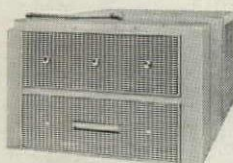
Model	AIAZ-240	AIAZ-350
Capacity, Btu/Hr.	24,000	35,000
Compressors	2	2
Air Flow (CFM) Required	800	1200
Electrical Characteristics	230-1-60	230-1-60
Approx. Weight, lbs. net	324	359
<b>Dimensions—Inches</b>		
Wall opening	24W x 14H	24W x 17½H
Condensing Unit	26H x 29¼W x 25¼D	26H x 29¼W x 25¼D
Cooling Coil Housing	13¼H x 23¼W x 18½D	17H x 23¼W x 22D

Single, sealed, packaged unit, factory-assembled consists of air-cooled condensing unit with 2 Super Meter-Miser Compressors, collar, and cooling coil section. Coil section slips thru wall opening into special housing above or below furnace. No water supply required nor refrigerant connections to make. Mounting brackets furnished for condensing unit.



### FULL-HOME AIR CONDITIONERS

Horizontal Air Conditioners designed for through-the-wall or flush-wall installation to give full-home air conditioning. May be used with existing furnace ductwork, with their own ducts, or without ducts through use of optional plenum as shown. Two models available. Both air-cooled, factory-wired, charged with refrigerant, and tested.



Model AZZ-190 with optional plenum.

Model	Cooling Capacity Btu/Hr.	Dimensions—Inches			Fan Capacity Nominal CFM
		Height	Width	Depth	
AZZ-190	19,000	18	29½	38	700
AZZ-340	34,000	22½	29½	42½	1200

### GAS FURNACES

Wide choice of vertical upflow and downflow, low-boy and horizontal models

Burners for natural, artificial, and LP gas

Models designated "–1" have sufficient blower capacity to permit adding matched cooling coil without changing motor, pulleys or belt

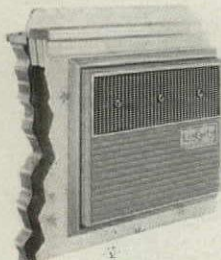
All models A.G.A. approved. Highly efficient burners and heat exchangers for dependable, low-cost service

Automatic controls. Efficient blowers with quiet, reliable motors

Model	Capacity Btu/Hr. Input	Cabinet Dimensions Inches		
		Height	Width	Depth
Vertical Upflow GHW-70	70,000	66	18½	16
" GHW-75-1	75,000	60	14½	29
" GHW-90	90,000	66½	25	25
" GHW-105-1	105,000	60	18½	29
" GHW-130-1	130,000	63	22	29
" GHW-160-1	160,000	63	27	29
Vertical Downflow GRW-70	70,000	66½	18½	16
" GRW-75-1	75,000	69	14½	29½
" GRW-105-1	105,000	69	18½	29½
" GRW-130-1	130,000	69	22	29½
Lowboy GLW-75-1	75,000	42½	14½	50½
" GLW-90	90,000	47½	25	42
" GLW-105-1	105,000	42½	18½	50½
" GLW-130-1	130,000	42½	22	50½
" GLV-150	150,000	54½	28½	55
" GLV-190-1	190,000	54½	33½	55
Horizontal GZW-85-1	85,000	21½	52	14½
" GZW-100-1	100,000	21½	52	17
" GZW-140-1	140,000	23	55	21½

### ROOM AIR CONDITIONERS

Beat heat and humidity with Frigidaire Dry-Cooling Room Air Conditioners. Exclusive Dehumidi-Coil cools without clamminess! Simplified Pre-Installation Kit makes it easy to build-in Vertical Units in any outside wall. Nine vertical models from 6500 to 12,400 Btu/Hr. cooling capacity, including models that heat as well as cool. Dimensions: 25"W x 20½"H x 15¾"D. Two horizontal models with cooling capacities of 14,100 and 16,500 Btu/Hr. Dimensions: 26"W x 16¾"H x 37½"D.



Vertical Model AI-100 installed thru wall, with optional trim.

Frigidaire reserves the right to change specifications and prices, or discontinue models without notice.

### OIL FURNACES

Choice of vertical upflow and downflow, lowboy, and horizontal models

Models designated "–1" have sufficient blower capacity to permit adding matched cooling coil without changing motor, pulleys or belt

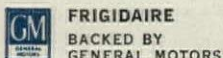
All models listed with Underwriters' Laboratories Automatic controls

Model	Capacity Btu/Hr. Output	Cabinet Dimensions Inches		
		Height	Width	Depth
Vertical Upflow OHW-84-1	84,000	66½	25	25
" OHW-101-1	100,800	65	24	30
Vertical Downflow ORW-84-1	84,000	67½	25	25
" ORW-101-1	100,800	69	24	30
Lowboy OLW-84-1	84,000	47½	25	42
" OLW-101-1	100,800	48	24	45½
" OLW-129-1	128,800	52½	28½	49½
" OLW-151-1	151,200	52½	33½	49½
Horizontal OZW-84-1	84,000	25	66½	25
" OZW-101-1	100,800	24	68	30



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# A ROUNDUP OF HOMEBUILDING MATERIALS AND TECHNIQUES

BY LEONARD G. HAEGER, A.I.A.

*A quiet but important revolution has taken place in the materials and techniques of homebuilding since World War II. In this article, Leonard G. Haeger, well known research consultant and writer surveys some of the more important developments.*

The decks of the U. S. Missouri anchored off Tokyo Bay on September 2, 1945, were probably not yet clear of the officers who participated in the ceremony between Japan and the Allies which marked the formal end of World War II before factories which had been grinding out weapons of destruction began to produce peacetime products again. At the same moment, they started planning radical improvements in designs to go into production as soon as the pressing immediacy of the war years' deprivations could be caught up with. The revolution in the building industry which has taken place in the intervening 15 years is a result of pent-up needs plus the knowledge of high-speed production methods learned by manufacturers during the war and of new materials and methods of construction developed then. It is far more truly a "revolution" than that so-called "Industrial Revolution" of 50 years ago which was actually evolutionary in character.

The current industrial revolution is exciting as well as important for every home owner, for it affects his pattern of living as well as his pocketbook.

Once upon a time, building materials were divided into two groups: functional (or structural) and decorative. One of the things the revolution has done is to bring about a merging of these distinctions so that many materials are now as decorative as they are functional; and the informed home owner, either present or potential, would do well to sit down and study carefully the many choices open to him when he goes about building a house in A.D. 1960. Decisions on these problems should be made after plenty of lonely thinking followed by adequate consultation with his architect. Such decisions are meaningful only in terms of a particular structure, on a specific site, to fill a particular set of needs.

Building products may be categorized in several ways. This article will consider the structural framework and related construction techniques, exterior and interior materials, and domestic appliances.

**STRUCTURAL FRAMEWORK AND CONSTRUCTION TECHNIQUES.** Wood is still the material most widely used in structural members for residences; but where formerly only solid beams and verticals were employed, now new glues and adhesives have made laminated wood structural members available in simple and complex shapes. These materials are both functional and decorative, and open a fresh realm of design possibilities to the ingenious architect.

Improved gluing techniques, threaded nails and special connectors have made the wood roof truss a standard method of roof framing for small, rectangular houses. Plank and beam framing, while not new, has been skillfully developed and can be used by those people who like great surfaces of exposed wood. All of these modern framing systems use less material and labor than do conventional systems.

Pacific Coast designers have led the way in the development of framing systems using light steel (or aluminum) shapes—sometimes in all metal constructions, but usually in combination with wood. Because of the greater dimensional stability of the metals and their potential for accurate shop fabrication, these structures may be assembled rapidly and are more rigid and less susceptible to cracking.

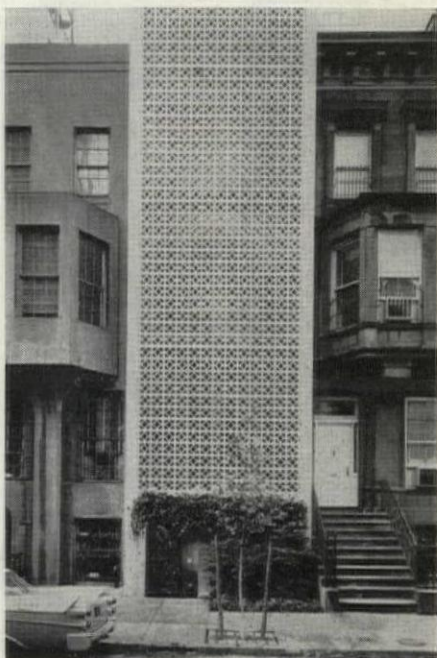
Concrete block masonry, once a lowly material to be hidden in the foundation or covered with other materials, has emerged with a personality of its own. It is not only improved as a product, but now can incorporate color, texture and pattern. It may be left exposed, indoors or outdoors, and is attractive from a purely decorative standpoint in screens and pierced grilles.

**EXTERIOR FINISHING MATERIALS.** A rough generalizing about new house construction in the United States as a whole would show something like

*Continued on page 9*



*NEW MATERIALS include: top—light weight steel frame and decking in a house by Jones and Emmons (Record Houses of 1957); center—laminated wood structure for a house by Victor Lundy (Record Houses of 1958); below—masonry grilles form the façade of Edward D. Stone's town house (Architectural Record, March, 1958)*





Press left



Swing out



Wash or paint

# Removability makes the big difference

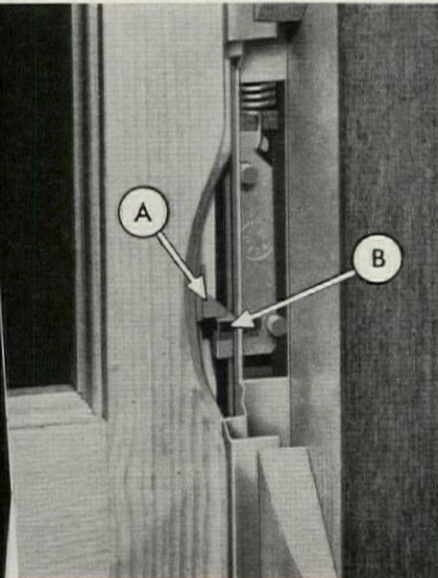
## Let's face it . . .

Wood is the one right material for residential windows. Findings listed below show heat loss of various materials 1" thick, 12" square, with only 32 degrees difference between inside and outside temperatures:

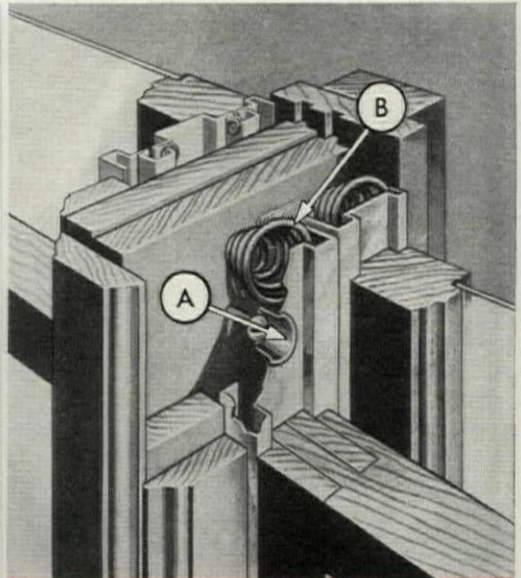
### HEAT LOSS

Wood . . . 25 BTU's per hr.  
Glass . . . 186 BTU's per hr.  
Steel . . . 9,984 BTU's per hr.  
Aluminum . . . . .  
45,312 BTU's per hr.

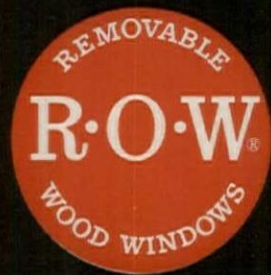
Figures taken from Chapters 5 and 6 of Heating, Ventilating & Air Conditioning Guide, 1949.



Lif-T-Lox, a counterbalancing device that engages sash automatically is shown in cutaway with lifting tab and sash plunger in "engaged" position. Nylon bearings assure quiet operation forever. Lifting tab "B" is made of tough, wax-impregnated pressed metal and automatically locks in place when sash is removed. It re-engages with sash plunger "A" when sash is replaced.



Instant Sash Removal is permitted by hard-drawn tapered springs, "B". These springs also insure year-round weather seal. Tension can be changed with cadmium-plated screws in cups "A". Architects specify R-O-W Removable Wood Windows because they know that these trouble-free windows will make the home more beautiful and more functional—forever. R-O-W mechanisms are patented and exclusive.

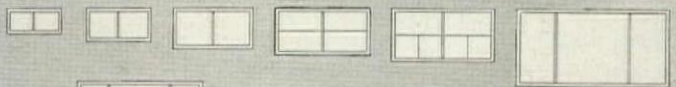


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two-thirds to be built of wood and one-third of brick or other masonry.

Among the newer exterior wall-covering materials are grooved plywood, fiberboard, pulpboard, hardboard, and cement asbestos sidings. Wood shingles can now be had factory-prefabricated into 4-ft long strips. Phenolic resin paper-coated plywood gives a smooth painting surface and hides the natural "checking" of Douglas fir. The manufacturers of these larger sheet materials claim lower in-place costs.

The new 6-in.-thick brick wall, thinner by 2 in. than normal brick wall construction, is put up on the site and may be used for one-story buildings.

In the metal line, large embossed aluminum sheets with permanent colors are available.

Mechanical aids to the application of stucco have reduced the cost of this traditional material; and factory-applied stucco on panels has been used in a few jobs.

In the field of roofing, not many innovations are to be found. For flat roofs, built-up roofing materials using glass fiber mats (something like mat construction) are available; and greater dimensional stability and resistance to drying-out give these roofs longer life. Asphalt shingle manufacturers have introduced self-sealing tabs which, under the heat of the sun, "weld" the shingles which interlock mechanically. Both types are highly resistant to high wind damage. Aluminum has entered the roofing field also in the form of large strips, but the high coefficient of expansion of aluminum makes necessary the use of complex jointing systems. Terne roofing (a metal sheet coated thinly with lead and tin), which came into use more than a hundred years ago on public buildings as well as large homes, is enjoying a revival. Its character fits as beautifully into contemporary design as traditional and it can be painted any color. Roofing of wood shingle, slate, tile and copper are still available.

Exterior paint formulations have been greatly improved through the use of synthetic oils and resins. One large paint manufacturer has a new exterior product believed to have a life of 20 years; and research is advancing on durable, clear, natural finishes for exterior woodwork. The failure of exterior paint films on wood, due to condensation of water vapor from the interior of the house, has been solved by the recently developed "breather paints"—paints which resist the flow of free water from the outside while allowing the flow of water vapor from inside. These paints are sold under the broad designation of "blister resistant."

Window and door companies are among those showing the greatest concern for improvement and diversification of their products, so that it is possible today to select from wood, steel, aluminum and plastic materials. Windows slide vertically or horizontally, swing or pivot in or out, and may be manually operated or remotely controlled by electricity.

Almost all windows and doors have built-in weatherstrips, assuring weather-tight openings. Widespread use of preformed plastic glazing beads have overcome the past failures of glazing putties and compounds. Double glazing of the prefab type helps reduce high heat losses of large glass areas; and insect screening can be had which diminishes light and glare as well as keeping out insects. While the lift-up type of garage door has not changed in recent years, the use of these large doors on two sides of a garage offers intriguing design opportunities for multi-use of the car-storage area.

One of the products directly traceable to wartime development is the "bubble type" plastic skylight, first manufactured as turrets for fighter planes. Now they are available in clear, translucent and heat-reflecting plastics which provide even illumination for both small and large areas; and can be had with a choice of manually or electrically operated ventilating devices or even facilities for exit or egress to a roof area. Skylights, almost unheard of for residential use until recently, have now been

discovered to be a real boon in the design of homes, especially small ones, for they not only offer privacy where it is needed in certain rooms, but, where space is at a premium, also offer 100 per cent use of wall space for cabinets, closets or furniture without sacrificing light or air.

**INTERIOR MATERIALS.** Insulation products have been greatly improved and reduced in cost so that a house well insulated for economy and comfort in any climate is easy to achieve. Recent innovations, such as aluminum foil-encased mineral wool blankets reduce heating and cooling costs, while making for pleasanter living. Preformed insulation (blankets, batts) are effective in ceilings and walls, while plastic foams, such as self-extinguishing polystyrene, are finding some applications due to ease of installation. Multi-cellular aluminum foil insulations are effective but must be carefully installed. Today's well insulated new house, compared with prewar houses, offers as much more comfort in all climates.

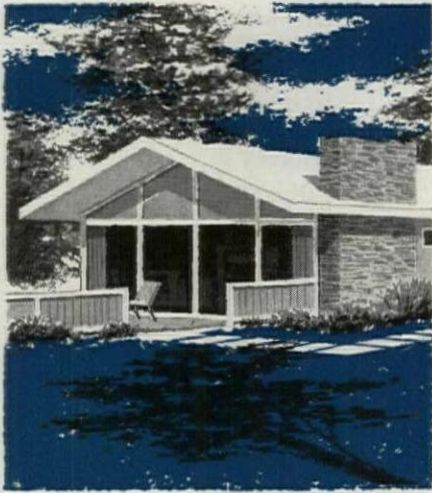
Vinyl floor coverings, developed and tested before the war, became available in 1945-46. Today, these floors are available in a wide range of colors and patterns; and the very newest ones on the market have a translucent appearance which makes them, in marbelized and mosaic designs, almost indistinguishable from the genuine material. Tiles flecked with gold and silver match glittering

Continued on page 30

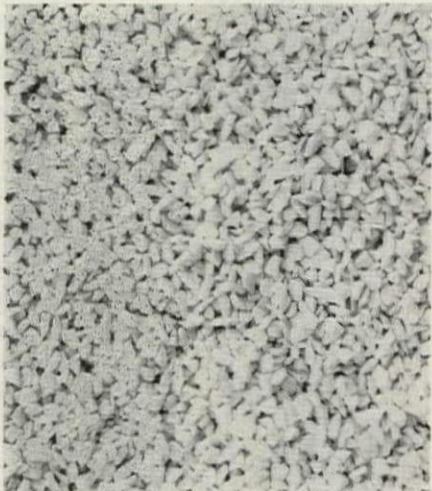


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# A REPORT ON HOME FURNISHINGS

BY BETTY PEPIS

*There is an obvious new "enrichment" appearing in home furnishings and decoration. For a close look at the latest trends, we have called on Betty Pepis, syndicated columnist on decoration, and former Home Editor of the New York Times.*

teriors are, and always have been, more subject to changing styles and fashions than the average professional likes to admit. There is nothing new about this—it's been going on for thousands of years. But, happily because the tradition of change is such a time-honored one, the changes follow a predictable pattern which provides the professional both with a guide and some clue as to what's coming next.

One need only remember the cycle of development followed by the great classic orders of Greek and Roman architecture. Roman architects relied for guidance upon designs of the earlier Greeks much in the way that, centuries later, Colonial American cabinetmakers copied the proportions and motifs used by their more polished English counterparts. The parallel is too obvious to be denied.

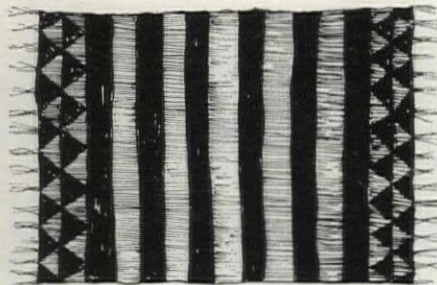
Equally revealing is inevitable enrichment and attenuation in scale that took place as these classic styles went through their courses. Column capitals grow now at a glance the increasing ornamentation which has characterized the evolution of surface design in every period. Simple Doric moldings give way to restrained Ionic detailing and finally to the flourishing decoration of Corinthian capitals. All the while columns got taller and more slender. Traditionally, periods of decoration follow this same swing from simplicity to the baroque which, though overlaid with detail, retains a certain curious delicacy of scale.

What may not be quite so obvious is the fact that the elements in our own residential interiors have pursued exactly this cycle during the last decade and a half. The immediate post-war interiors of the mid-forties, uncluttered and often branded as sterile and cold, have given way to rooms filled with furniture.

A survey of the elements which contribute to interiors of 1959 homes follows. Since this Baroque period is just budding, not yet in full blossom, it seems safe to predict that much of what is described below will be even more stylish, faddish or fashionable next year and for some years to come. It is needless to judge whether this new eclecticism is good or bad. The fact remains it is here.

**BACKGROUNDS ARE MORE INSISTENT.** Since backgrounds seem basic, for no room can exist without them, this survey will begin there. No question that a splash of decorative design installed by the architect or added by the interior designer has in recent months been the preferred pattern. **FLOORING IS THE AREA WHERE DESIGNERS HAVE PUT THEIR BEST FOOT FORWARD.** It seems impossible that vinyl tile, most popular of the hard surface floorings and most adapted to varying treatments, is only five years old. In that time this plastic flooring has been treated to look like Italian marble, brick, whitewashed boards, terrazzo.

It has also been combined with a variety of other materials: brass motifs, strips of wood, bits of pewter or even ceramic tiles. It comes in a fantastic color range, has a high sheen and is said to be exceptionally durable. Expense is the one element the prospective homeowner may find objectionable.



**FLOOR COVERINGS, USUALLY SMALL IN SIZE, TOP THESE SLICK HARD SURFACES WITH RICH TEXTURE OR BRILLIANT COLOR.** When architect or designer has provided a handsome flooring there seems no reason to completely cover it up. There is usually, however, some sense in adding what has come to be known as an area or accent rug. First, it provides physical warmth (as did the old time hearthside rug or throw rug set out alongside a bed) and secondly it adds visual warmth with color and texture.

The accent rug derives from, and is still influenced by Scandinavian styles. Swedes and Finns many centuries ago wove thick piled blankets designed to cover a bed (the long haired side went inside to keep the

sleeper warm). Later these decorative tapestry types found a place on the wall, and more recently were used on the floor.

The Scandinavian prototypes, usually in brilliant color and abstract design, are all hand done and accordingly high in price. American firms have, however, adapted these thick piled, brightly colored rugs and made them available in cotton and synthetics, as well as wool, at a more acceptable cost.

These new rugs are useful not only as simple decoration but to provide a focal point in a room by marking off islands of space where various areas are devoted to different purposes: one to dining, for example and another to conversation.

**CEILINGS APPEAR TO BE THE NEXT AREA TO LOOK UP IN DESIGN.** Recent interiors would indicate that the ceiling treatments of various sorts are coming up. Sometimes these are installed for functional reasons: sound proofing, perhaps, or light conditioning.

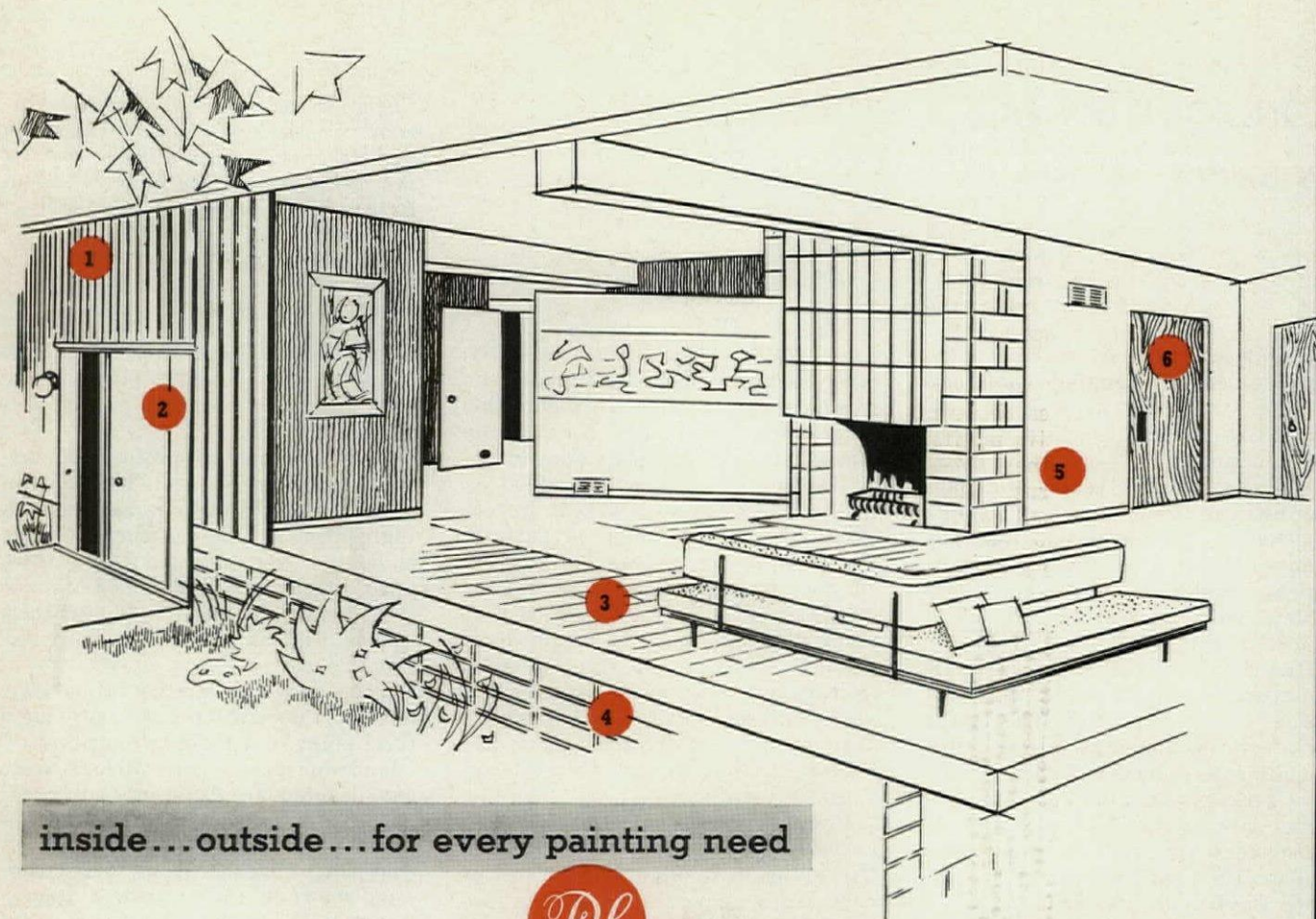
The plastic dropped ceiling (no longer confined to the light-diffusing egg-crate) is one phase of this fad. Dropped areas of plaster worked in circles or free form shapes and pierced with spotlights is another.

Decorators, as usual, have gone farther along with this concept, than has the architect. Some have papered ceilings with designs that although they do not rival the Sistine Chapel, seem almost as commanding and distracting. Others have stretched fabric across the top of the room. In one case this was a print of green leaves meant, its creator claimed, to give occupants of the room the impression of living under a leafy bower.

**WALLS HAVE BEEN EMPHASIZED AND REDEFINED.** Walls, walls and more walls were demanded by a volunteer group of ordinary housewives reporting at a Washington housing conference. Seems the open floor plan has made for too much togetherness for the average American family.

Many walls are part-time ones added after the structure is completed. Commercial folding doors painted or papered to match the decor are familiar solutions. More popular in the year just past have been

*Continued on page 13*



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  - 4 **Vapex Masonry Paint** — lively colors for exterior masonry walls or asbestos-cement composition materials. Applies easily. Resists weather exceptionally well.
  - 5 **NEW Lyt-all Flowing Flat** — dries with a velvet-smooth, scrubbable finish.
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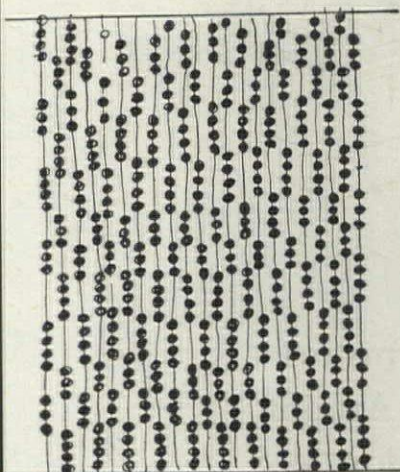
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neled sliding doors reminiscent of those in a Japanese house, sometimes lined in (authentically) with rice paper; more often the wood frames are pasted with paper which will last long—and also act as a sound barrier. Other walls have a see-through quality inspired by the popularity of screens and frets used architecturally. The designs of many reflect the influence of Moorish houses and Indian palaces.

Also new for dividing walls are slabs of double glass panes between which are pressed decorative motifs, sometimes just leaves, other times printed geometric patterns. Glass has also appeared in small colored slabs which can be strung together with wire and used to make a modern stained glass room divider.



Beads (a popular Mediterranean decorative device) have also become established as acceptable, practical room dividers. In chalky white these give an amazingly strict quality that makes them appropriate for the most restrained interior. In iridescent and colored glass, or even bright colors worked into an abstract design, the beaded curtain takes on a much more positive quality.

Where plain walls do exist they have been rarely left alone. Texture: wood paneling or newly introduced rubber sheeting which resembles Roman brick or weathered wood has assumed importance. An alternate to these is fabric—not the toiles and brocades of the eighteenth century—but modern textiles like rough linens and smooth felts, both of which are now available ready-glued to apply to the wall as easily as paper.

DAYS WITH WINDOWS REFLECT CONTINUING INTEREST IN THE FAR AND NEAR EAST. The wild free-form printing ranging from pinch-pleated and straight from floor to ceiling is a thing of the past as is the simple unlined silk tapestry. In their place one is apt to find woven blinds incorporating bamboo or wood slats or the sliding pan-

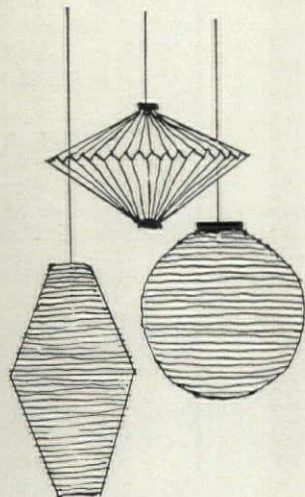
els of wood and metal and fixed frets described above and used also as inside walls. Shutters used inside rather than outside the window are another variation.

Airy casement curtains have taken to pattern: usually restrained stripes or subtle plaids. Window shades, too, even the ordinary roller kind, have been treated with tweedy surfaces or delicate flocked sprays of leaves which have an Oriental flavor quite at home in a modern interior. Most recent trend is to blend window and wall by confining both to a single color and type of texture.

LANTERNS ILLUMINATE THE LIGHTING SCENE. These may be the pleated shades of Scandinavia, rice paper ones from Japan, milk glass globes from Germany, brilliantly colored glass shapes from Italy, pearly kapa shell shades from the Philippines, plastic ones made in America. Newest of all are pierced brass lanterns that might grace a Turkish bazaar.

Whichever the choice, almost every well dressed room of today seems to have a globe of light hanging somewhere within its walls. And when lights are not hanging from the ceiling they are apt to be suspended from walls or attached to floor-to-ceiling poles, the bullet-shaped shades arranged to shine on various works of art.

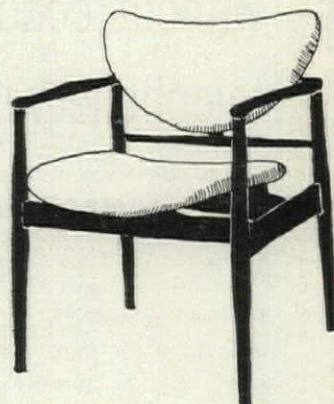
Because so much of today's lighting is built in and becomes a structural part of the interior, there has been a surprising rise in interest in the use of dimmers to control brightness in residential interiors. Simplified systems, easy to install and much reduced in price are available and in use today even to control a single lamp.



FURNITURE HAS BEEN ENRICHED WITH CURVED AND SCULPTURAL LINES ON CHAIRS AND SOFAS, COLORED LACQUER AND IMPORTANT HARDWARE ON CHESTS AND CABINETS. Despite protestations of a vocal minority, tradi-

tional furniture, per se, is not staging a comeback. Antiques are both too scarce and too expensive to find a place in the average home.

Reproductions, on the other hand, are rarely accurate interpretations of a past period but only contemporary cases tricked out with period motifs. The true line-for-line copy is rarely available except at a costly custom level.



The curvilinear look of seating shows up both in framework and filling. The sculptural chair frames and cradles and sofa stretchers of Danish design have been widely accepted, and copied, for use in the American home.

The rounded look of upholstery on the other hand results more from technological developments. The widespread use of rubber foam, which can be moulded and the advent of plastic foam which can simply be cut with scissors, has made unusual cushioning shapes possible. And hexagonal, tapered and other unconventional forms have become the rule for both chair and sofa backs.

The sharp right angle has also departed from the table top. Rounded edges or actual ovals, five and six-sided snack tables, a circle cut into wedges like a pie seem slated to replace strict and straight squares.

Cabinets and chests, on the other hand, retain their box-like look. Even when such storage units are not built in they look as though they were. Hung on walls, suspended on posts or stacked on benches they appear to be part of the basic structure of a room. Color has been added in spots—usually red and black in emulation of the Orientals and, in many cases, heavy brass hardware from the same Far Eastern sources.

FABRICS ARE GETTING BOTH SMOOTHER AND SLICKER. The trend toward heavy textured tweeds has been replaced by more subtle weaves with flat surfaces. Pattern is more often woven in than printed on. Designs

Continued on page 38

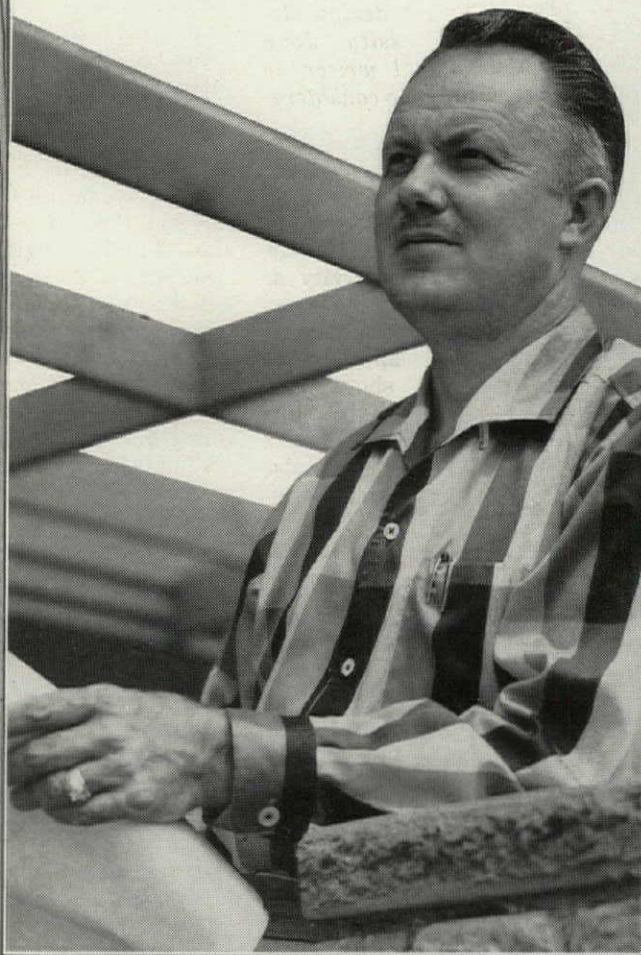
“New homes aren’t  
really up-to-date  
without concealed  
telephone wiring”

—SAYS BURTON W. DUENKE,  
CUSTOM BUILDER OF ST. LOUIS, MISSOURI

“Nowadays,” says Mr. Duenke, “it’s *ideas* that sell homes. The modern house-hunter is looking for more than a roof over his head and X number of bedrooms and closets. He wants smart, functional design—and proof that the house is planned to meet his future needs. Concealed telephone wiring is the kind of idea he likes.”

The Burton W. Duenke Building Company has completed over 1000 homes since 1947. Its current project is Harwood Hills, a gracious community of homes in the \$26,000 to \$40,000 price range, located in suburban St. Louis, to the west. Every one of these modern dwellings features *six* or *seven* concealed telephone outlets.

“We don’t look on concealed telephone wiring as a luxury item,” says Mr. Duenke. “It’s a necessity in doing a workmanlike job of building today’s home. It provides for the homeowner’s future telephone needs, and keeps his home more attractive. What’s more, it’s a kind of sales feature that costs us very little to offer.”

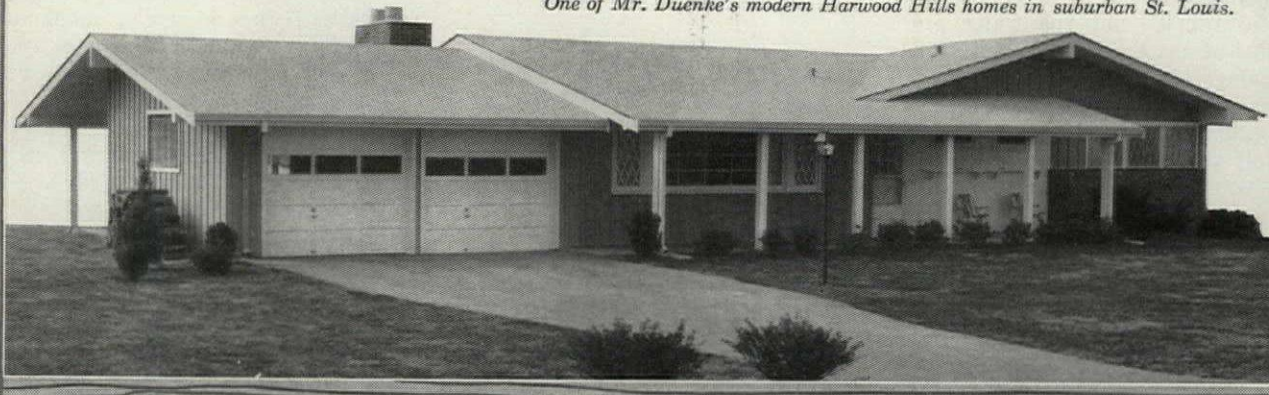


Your local Telephone Business Office will gladly help you with telephone planning for your homes. For details on home telephone installations, see Sweet’s Light Construction File, 8i/Be. For commercial installations, Sweet’s Architectural File, 32a/Be.

**BELL TELEPHONE SYSTEM**



One of Mr. Duenke’s modern Harwood Hills homes in suburban St. Louis.





# NEW DIRECTIONS FOR HOME LIGHTING

BY JOHN VAISEY

Lighting, for the home as well as for larger buildings, is fast being recognized as an important design element as well as necessity. John Vaisey, widely published writer on home lighting, offers some considerations.

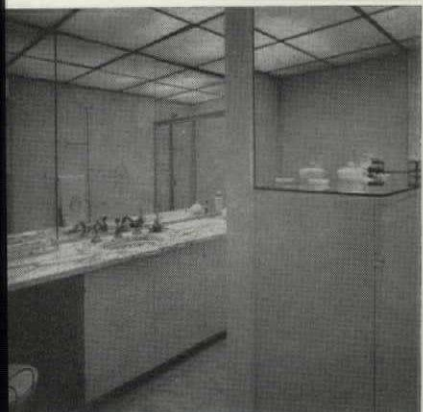
Though home lighting is more subtle, it needs just as much creativity as theatrical lighting because, like a play, life changes and progresses. Its moods, attitudes, and appearances change, and the "stage" should provide the right setting for them. Lighting can unify and enhance a creative architectural design. It also creates mood, atmosphere, tone, texture; it unifies or divides, brings things closer or moves them away. It makes things glow with color or be subdued with greyness.

The dictionary labels light as the sensation aroused by stimulation of the visual center; primarily, sensation of visual form, brought out by more or less light in the different parts." If light thus makes us aware of form, then how can we use it? First by knowing what light does—beyond the amount of footcandles and the shape of its fixture.

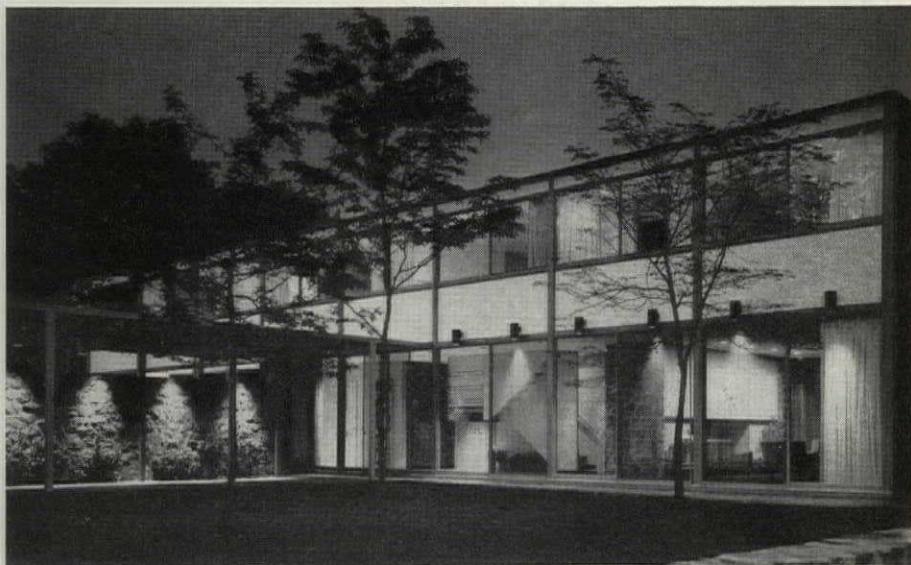
A useful, well-lighted and designed house must be:

- A house with enough outlets.
- A house with enough fixtures, adequately controlled, and sized and placed to give adequate light.
- A house whose functional areas have lights for specific tasks.
- A house with interesting and dramatic architectural lighting.

To analyze light, it might be con-



Luminous ceiling gives good light in this kitchen in the Steinberg house by Curtis and Davis (see page 124)



venient to consider its three major attributes to be: color, "shape" and intensity.

## COLOR IN LIGHTING

Use of colored light in the home is increasing. Not only the popular pastel lamps, but ones formerly found on the stage. By them, moods can be suggested—vivid reds and oranges give a strong, exciting atmosphere, whereas blues suggest quieter, more tranquil feelings.

First determine what color scheme you will use. Is it basically warm, or is it a more formal, cool one? The color of surfaces, fabrics, and furnishings must be considered. Maybe you want white—but what kind—"cool" or "warm"? The results are better planned than left to chance.

Consider the differing ability of various colored surfaces to reflect light, too. For *maximum* brightness, everything should be light-colored—floor, ceiling, walls. This gives an infinite "bounce" to light to provide reflection. Upon this "maximum" condition, we impose the changes dictated by taste and preference.

Flourescents, once unpopular because of their bluish-white light, are available now in warm or cool white, as well as daylight, which gives "northlight" bluish-white. It is important to keep flourescents the same color warmth as room colors, otherwise greyness and washed-out colors result.

## "SHAPE IN LIGHTING"

The second attribute, "shape," relates directly to function. For con-

Exterior downlights and recessed inside spotlights give a festive nighttime air to the Bernhard house by Eliot Noyes, above. (See page 104.) Below: the familyroom-kitchen by Grider and LaMarch, (page 128) combines general lighting and added strips over kitchen work surfaces. The skylight could have lights above for nighttime.

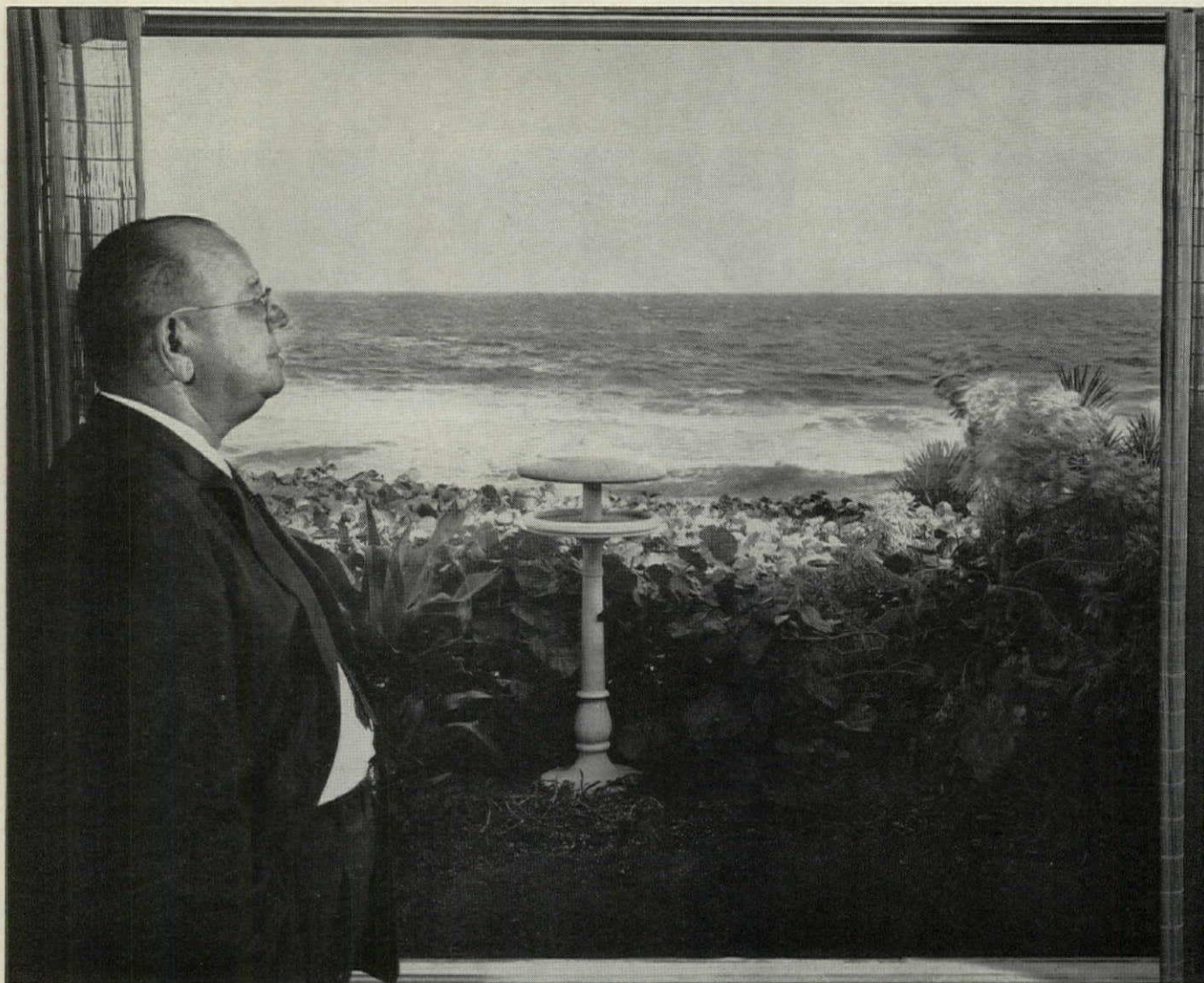


venience, light can be considered for three functions:

1. General light for overall illumination;
2. Specific light for doing things; and
3. Light for moods, accent and interest.

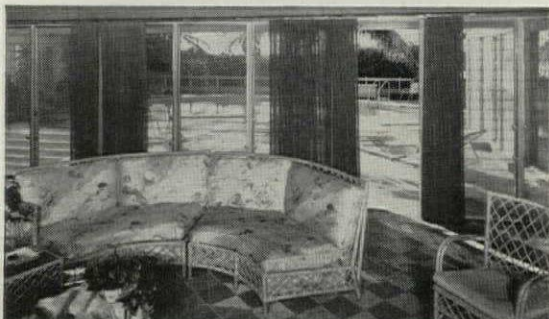
Good overall illumination can

*Continued on page 50*



Home buyers find **AMERICAN Lustragray** glass provides  
 "the most comfortable living under the sun"

*Lustragray window walls provide this beautiful Florida home with privacy from the exterior, "clear glass" non-glare vision from the interior*



**Clint B. King, retired executive, has this to say about the Lustragray glass in his Hillsboro Beach, Florida home:** "Sun glare was a real problem at our beachside home until we replaced the glass in window areas with AMERICAN Lustragray. Now we can relax and enjoy our view of the Atlantic in comfort. I've also had many compliments on the attractive appearance of the glass. I'd recommend it to anyone. Its small additional cost is refunded every time we look through a window."

These Lustragray benefits, plus its heat-absorbing qualities, add value to your homes yet can be had economically. Consult your phone directory now for your nearest AMERICAN distributor or glazier.

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AMERICAN-SAINT GOBAIN CORPORATION is a merger of the former American Window Glass Company, Pittsburgh, Pa., and the former Blue Ridge Glass Corporation, Kingsport, Tenn. (which was a wholly-owned subsidiary of Saint-Gobain of Paris, France). American Window Glass Division plants are located in Arnold, Jeannette, Ellwood City, Pa. • Okmulgee, Okla. Blue Ridge Glass Division plant is located in Kingsport, Tenn.

WSW 7472-B

# WARM AIR HEATING SYSTEMS

BY JAMES D. NOLAN

*For those interested in a warm air or ducted heating or cooling system, the following check list was prepared by James D. Nolan of the National Warm Air Heating and Air Conditioning Association. A list is also appended explaining the various certification programs and seals used by the warm air heating industry.*

In years back, before the modern central heating systems were developed and made mechanically efficient and nearly perfect in operation, it was simple enough to provide a fireplace in every room and the occupants had to be content with either warming the front or back of their body, whichever faced the heat. Cooling, of course, was unknown for the family residence.

Today, however, the technology, the scientific achievements of America have brought the cost of a nearly perfect heating and cooling system within the range and pocketbook of virtually every home owner or home buyer in the nation.

Rather than examine history, it is better to see what a dollar can buy today, and to set down the requirements of a modern ducted heating or cooling system. Most people, for example, are astonished to learn that one national trade association has conducted a continuing scientific research project for 41 years in order to find out what indoor comfort is and how you can put it into the home with a minimum of ease and cost.

But, of course, many architects and home owners ask: How can you get a comfortable system? How can you define Comfort? And, how can you specify and make certain that the dealer-contractor really does an adequate job?

To understand the problem of indoor comfort you have to examine the change in outlook by Americans since the turn of the century.

In the last 50 years the American family man, and his wife too, have become fairly good authorities on such diverse mechanical and electrical equipment as television sets, automatic washers and dryers, electric dishwashers and countless other highly complicated devices.

And, collectively, Americans have

become the largest group of people in any nation since the history of civilization to want, seek and buy a home.

Yet the one household element that is still a stranger to them, though they live with it every day, is their central heating or cooling system.

It's when the house is being bought or built that the owner-to-be has a real opportunity to specify just what he wants in a heating or cooling system. And, experts indicate that by planning for cooling at the time heating is installed, which doesn't cost much more, several hundred dollars can be saved at some future date when the owner decides to add summer air conditioning.

Most important is that a properly designed system, like a well planned hi-fi system saves money in the long run because it provides many years of additional service, costs less to operate and gives the home owner honest-to-goodness indoor comfort.

Considerations that the architect and home buyer should specify and demand when the house plans are ready for the application of the heating and cooling system are as follows:

**Uniform Temperatures Throughout All Rooms**—Winter air temperatures between all rooms can be maintained within 2 degrees of thermostat setting of 75 degrees Fahrenheit. Summer air temperatures between all rooms can be maintained within 3 degrees of thermostat setting of 80 degrees Fahrenheit.

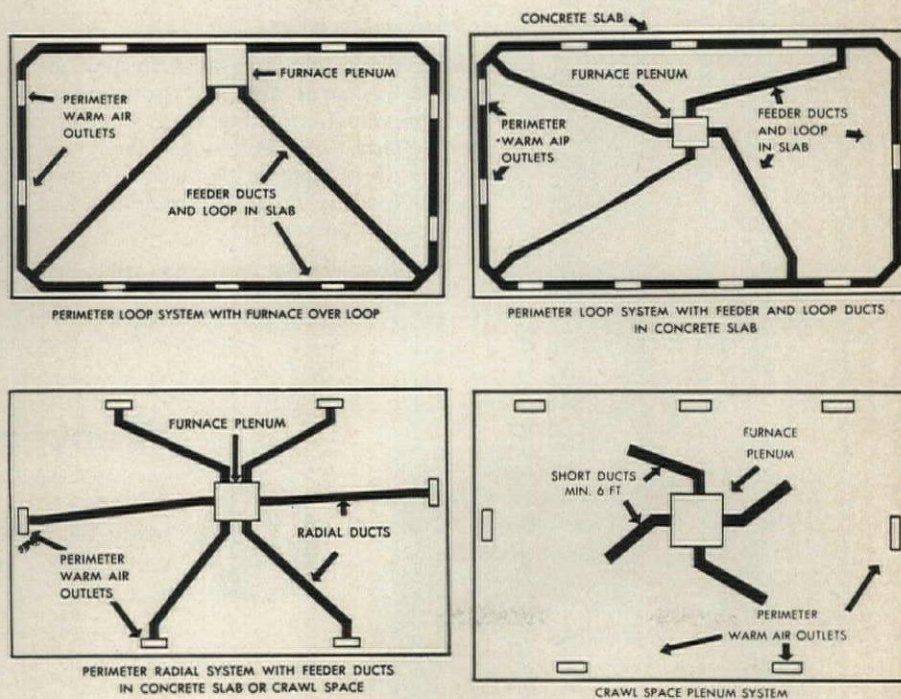
**Floor Warmth in All Above Grade Rooms**—Temperatures 4 inches above the floor surface will be not less than 70 degrees Fahrenheit during the winter.

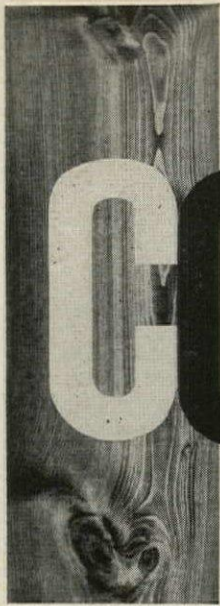
**Constant Room Air Temperatures**—Temperature fluctuation within any room during winter will not vary more than 2 degrees of the thermostat setting between the "on" and "off" cycling of the furnace unit. During summer, the temperature fluctuation within any room will not vary more than 3 degrees of the thermostat setting between the "on" and "off" cycling of the cooling unit.

**Uniform Temperatures Between Floor and Ceiling**—During winter, air temperatures measured 4 inches above the floor and 72 inches above the floor can be maintained so that variation between these two meas-

*Continued on page 168*

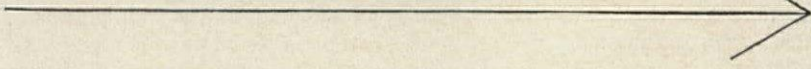
## FOUR TYPICAL WARM AIR PERIMETER HEATING SYSTEMS





# COLOR

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With color, paneling takes on new appeal, new charm and new practicality. And the versatile lumber from woods of the Western Pine Region has the grain and texture adaptable to many coloring effects—for *any* room in the home, for *any* taste or personality.

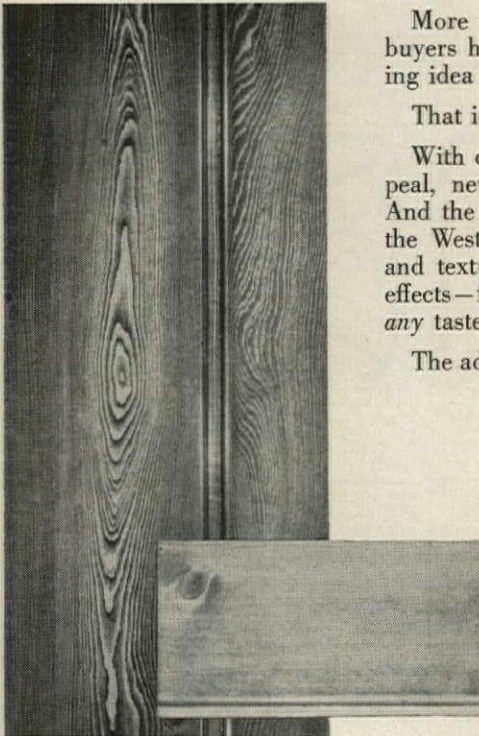
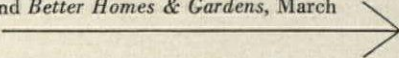
The advertisement on the opposite page

is the first in a series featuring Western Pine Region wood paneling in color. It is designed to alert your customers to the intriguing effects possible with paneling.

Give your homes more sales appeal—the warmth of *genuine* wood in bright, new dress. To achieve interesting color with natural beauty, specify Western Pine Region woods...your assurance of high-quality lumber.

For more information about Western Pine Association's program of color paneling write to: WESTERN PINE ASSOCIATION, Dept. 406-U, Yeon Building, Portland 4, Oregon.

This advertisement appeared in *American Home*, February, and *Living for Young Homemakers* and *Better Homes & Gardens*, March



### **Western Pine Association**

member mills manufacture these woods to high standards of seasoning, grading and measurement...grade stamped lumber is available in these species

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TODAY'S WESTERN PINE TREE FARMING GUARANTEES LUMBER TOMORROW



# NEW...

Now you can add the excitement of color to the natural beauty of wood paneling. Only with

**Western Pine Region woods\***

can you create so many colors, textures and effects.

A new book tells you how.

Write for "Nature Makes News"

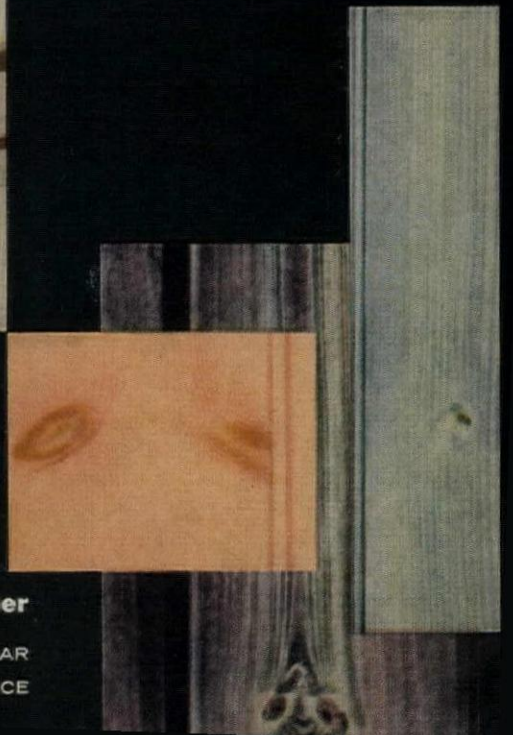
and "101 Home Ideas" to


Western Pine Association, Dept. **C**

Yeon Bldg., Portland 4, Oregon.



*Family room wall of Ponderosa Pine finished in Fuego Flame*



For this  mark on well-manufactured and carefully graded lumber

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S. FIR • LARCH • RED CEDAR • LODGEPOLE PINE • ENGELMANN SPRUCE

# HYDRONICS, OR HOT WATER HEATING

BY WILLIAM J. DUKES

*For a report on the latest developments on hot water heating—or hydronics as the industry now calls it—and on cooling systems compatible with it, the following pointers have been prepared by William J. Dukes of the Better Heating-Cooling Council, a national association of hot water heating equipment manufacturers.*

One of the newest developments in hydronics is the small-pipe system. Experiments at the I-B-R Research Home at the University of Illinois have shown that considerable time and installation expense can be saved when 1/4- to 3/8-inch flexible copper tubing is used for run-outs and risers in a one-pipe system. Reducing the number of fittings by one-half is one advantage of the new system; the other is that it cuts down the labor time involved in connecting these fittings. According to Warren E. Harris, Research Professor at the University, use of the small-pipe system shaves \$150 off the cost of piping, which brings it in line with the installation costs of competitive systems.

The small automatically-fired boiler, appliance-sized and appliance-styled, is capable of supplying high temperature hot water at relatively low cost. At the same time it also provides all the domestic hot water a family needs through a built-in hot water heater. Capable of supplying 3 1/2 gallons or more per minute, the heater takes up no basement or utility room space and is effective in keeping these areas from getting overly damp and humid in summer.

Another major space-saving factor with hydronics is its use of finger-size piping or tubing, which can be run in joist spaces or where joists are notched. In either case, headroom is increased, and ceilings are finished off without difficulty. Tubing can be snaked through small holes in floors and walls when additions are made in the system.

## Cooling the Hydronic Home

Hydronically cooled houses are among the most comfortable of any during the season of high temperature and humidity. One way to cool with hydronics is through the use of a large fan-coil located in the attic or

central hall area. The unit is supplied with chilled water from a chiller, which can be either air- or water-cooled. Another system of cooling is by means of small fan-coils located in rooms. These are double-duty units—they can be used for heating too. Because they can be individually controlled they are ideal for motels, apartment houses and large residences.

A house with baseboard heating, for example, may have a central self-contained air conditioning system—or individual room air conditioners. These are two more ways that hydronically heated houses may be cooled. In the former, cooling is normally introduced at the ceiling level (in line with the tendency of cool air to fall), while heating is introduced at the baseboard or floor level. This gives ideal indoor comfort the year 'round.

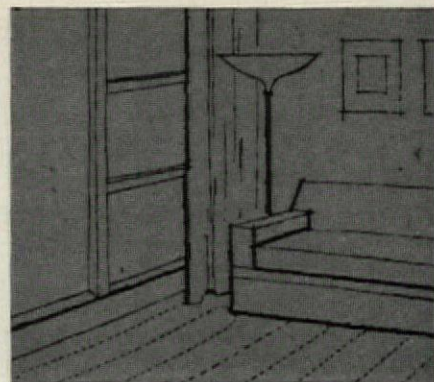
Performance characteristics of hydronic cooling systems show them to be capable of optimum comfort conditions when properly sized and installed according to manufacturers' directions. In tests conducted at the I-B-R Research Home, for example, the average indoor dry-bulb temperature was 75° F, compared with a maximum outdoor temperature of 100° F. Temperatures between rooms varied little—a difference of 3° between the warmest rooms (with large Southern-exposed glass areas) and the coolest rooms. Chiller for the cooling system in this home was the air-cooled type with a 2 1/2-ton capacity. Cooling units were fan-coils in all six rooms of the home.

## Snow-Melting May Be Added

For the prospective homeowner who wants to avoid hazardous falls from icy sidewalks, and who wants to be relieved of the back-breaking chore of shoveling snow—a snow-melting system is the answer. Automatic snow melting can be added easily to hydronic heating. Both systems use the same boiler; the snow-melting system requires the addition of a small heat exchanger and a separate circulator.

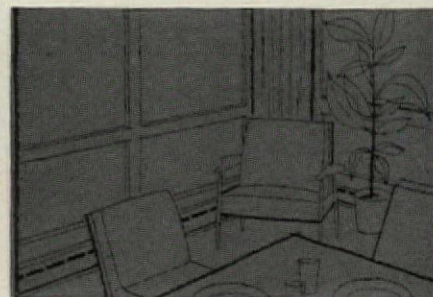
Installation of a snow-melting system consists of laying a series of pipes in either grid or coil form. The

*Continued on page 172*

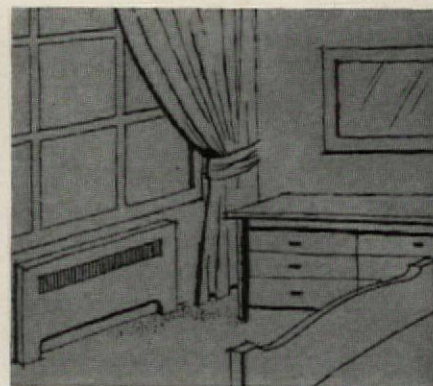


TYPES OF HOT WATER HEATING SYSTEMS

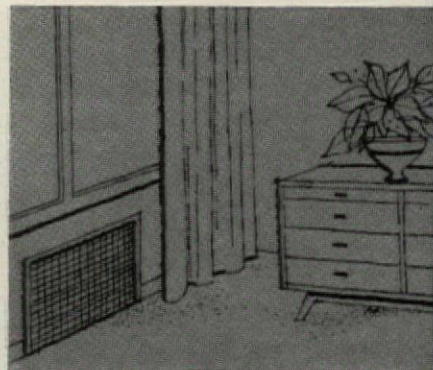
1. (above) Panel heating with hot water coils embedded in the floor, ceiling or walls. (This and the following types of heat distributors may be used singly or in combination)



2. Baseboard units installed around the perimeter of house



3. Convector units at exterior walls



4. Radiator units at exterior walls

# Need we say more?

**The house you build** is one of the largest dollar investments your prospective home buyer is apt to make . . . and probably one of the best. If the house you build is *adequately insulated*, the buyer stands a pretty good chance to *save upwards of 35% or more of his fuel costs*. What's more . . . the savings go on year after year, and your buyer is a real satisfied home owner!

**If a cooler house**, rather than a warmer one, is your buyer's concern . . . you'll find that a *good quality insulation*, properly installed, can save you and your home buyer real money on the cost of air conditioning equipment. You can *reduce the size of the cooling unit as much as 50%* . . . and save important money for something else to increase the quality of your house. A well insulated house is just that much easier to cool.

**Doesn't it make good sense** then to use the *best insulation* in the house you build . . . a quality insulation to make sure that your house is a *quality home* in every respect?

**Want to start right now ?**

*Specify and use*

## **BALSAM-WOOL®**

### **SEALED INSULATION**

WOOD CONVERSION COMPANY, Saint Paul, Minnesota  
Manufacturers of NU-WOOD® sheathing, Micro-Perf and Constellation acoustical tiles . . . other *quality* building materials

# EQUIPMENT FOR KITCHENS AND BATHS

BY C. F. CRAIGIE

*There is currently a major program going on in the restyling of equipment for baths, kitchens and laundries. C. F. Craigie, of the Plumbing Fixture Manufacturers Association reports here on some of the many items that are currently available.*

It is safe to say that few industries have undertaken a more complete program of redesigning their products than the plumbing industry, particularly during the past ten years. As a result, a greater variety in style, design and type of plumbing fixtures is available now than ever before.

But redesigning of product lines is only half the story. At least as much credit for putting plumbing fixtures squarely in the spotlight of public interest must go to the increased emphasis on color.

As an indication of the gain in popularity of colored plumbing ware, sales figures compiled by the PFMA show a ten per cent jump during the period 1954 through 1957.

Colored fixture sales currently account for 30 to 35 per cent of the total market. Consumer preferences in fixture colors revealed by the PFMA survey show interesting significant trends.



*One of the latest developments for kitchens is a series of sleek storage units. This one is designed by Paul McCobb*

Coral is the first choice with homeowners, better than 50 per cent ahead of the next two most popular shades—green and blue, in that order. Coral fixtures doubled in sales during the period covered.

Fourth choice in the color popularity sweepstakes goes to tan. The most spectacular showing in terms of percentage of sales gain, however, was made by yellow, now in fifth place. Yellow jumped nearly 500 per cent ahead in the four-year period surveyed, and is still gaining.

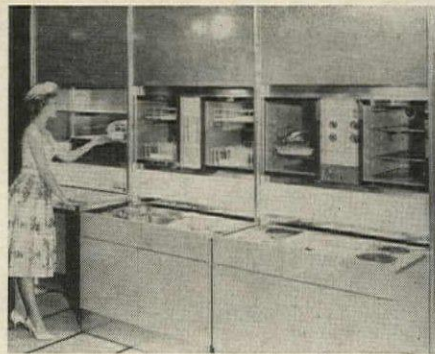
Gray is the choice for sixth place on the fixture color palette. Red and ivory, in seventh and eighth places respectively, are trailing far behind the other colors in the plumbing fixture spectrum, and have been steadily losing ground. Each accounts for less than one per cent of total colored fixture sales.

As to the fixtures themselves, the rectangular, double-shelled recessed bathtub, five feet in length, and made either of enameled cast iron or steel, is still the standard of the industry. Corner models as well as the recessed type are available in rectangular baths, the bathing area being either straight or on the diagonal. In the latter case, there is an integral seat, useful for foot bathing or taking a sitting shower.

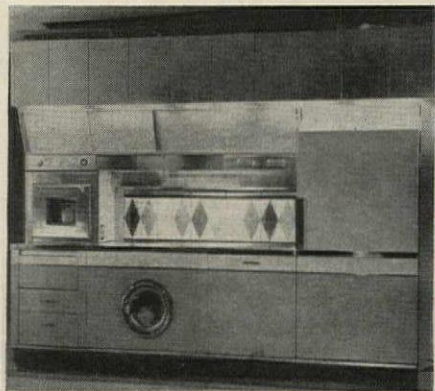
Another popular type of fixture is the square bathtub, available in both recessed and corner installation types. Here the bathing area is on the diagonal and there are one or perhaps two integral seats. The wide, low bench rim of modern bathtubs of all types makes it easy to get in and out of the tub when bathing, in addition to providing a place to sit while drying off with a towel after bath or shower.

While an overhead shower is optional, most homebuyers specify it to satisfy those members of the family who prefer a standing to a sitting bath.

Where space-saving is the primary consideration, one of the smaller showering-receptor type baths made by a number of leading manufacturers is the indicated choice. This fixture takes up little more floor space than the standard receptor floor of a shower stall. However, it has the added advantage of being usable as a bathtub as well as a shower. Show-



*Another kitchen trend is the "appliance wall" which contains all major appliances, and often the laundry. Above is an all-electric wall unit; below are open and closed views of an all-gas unit which even includes the home furnace*



ering-receptor tubs are made to order for baths designed specifically for the children of the family, and are just the thing for boosting a powder room near a patio entranceway to full bath efficiency.

The greatest variety in fixture design and style undoubtedly is to be found among lavatories. There are corner-installed lavatories to save space, dental lavatories to provide a separate fixture for brushing the teeth, as well as square, rectangular, D-shaped and oval lavatories for free-standing installation on chromium-plated brass legs or pedestals.

*Continued on page 42*





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GRECIAN  
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**SPECIFICATIONS—**

Sizes: Standard—9" x 9", 12" x 12" and 37" x 37" (untrimmed). Special—9" x 18", 18" x 18", 24" x 36", 36" x 36". Thickness: 1/8".

Bright Gold and Bright Silver Feature Strip: 1/8", 1/4", 1" and over widths in 36" lengths.

*another exclusive style in*

**KENTILE FLOORS**

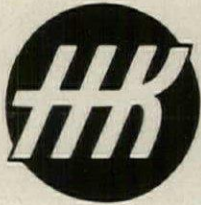
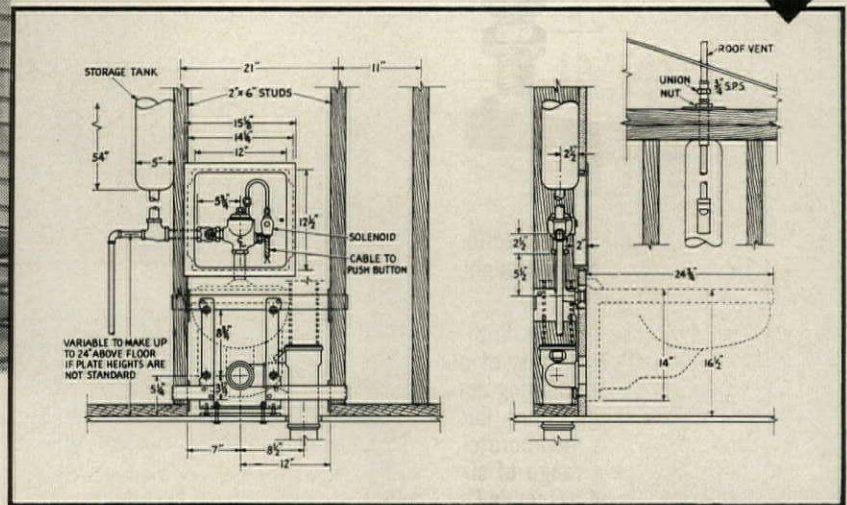
HAWS-KRAMER makes it practical!

# CONCEALED FLUSH VALVE SYSTEM FOR RESIDENTIAL CONSTRUCTION



*this hidden system does the work*

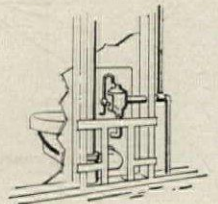
*only this button is visible*



## "Silent-Service"

For the first time—a powerful, silent flush valve system may be installed in homes *without* special pipes of impractical, uneconomical size. "Silent-Service" features the HAWS-KRAMER Nylaphragm Flush Valve (guaranteed 5 years!) and eliminates noisy exposed tanks. Just a handy electric push-button on the wall—that's all. Pair this with the new wall hung toilet fixtures and you have tremendous appeal for every homeowner: amazing quietness, greater sanitation, easier cleaning and maximum beauty! Check the detail drawing above, and then call or write for the fully illustrated brochure awaiting you at HAWS-KRAMER. Response to our consumer advertising shows that *this* is what your clients want; so get the facts for them.

Ask for details about HAWS-KRAMER "Silent-Service".



### HAWS-KRAMER FLUSH VALVES

FOURTH AND PAGE STREETS • BERKELEY 10, CALIFORNIA

DIVISION OF HAWS DRINKING FAUCET COMPANY

# TO MOVE A WALL WITH A FINGERTIP— GRANT 5000 SLIDING DOOR HARDWARE

Precise to the point of perfection, Grant 5000 hardware is the most thoroughly engineered line available.

Hand workmanship insures both function and durability beyond the ability of ordinary hardware. Continuous ball bearing action "coasts" heavier-than-average doors. Every desirable operating feature is incorporated in the 5000 line, including: wide range of sizes... for unlimited loads... hand assembled and inspected... corrosion resistant... center-hung.

For walls, partitions, communicating doors, sliding glass doors and other important installations, specify Grant 5000 Sliding Door Hardware.

Building Name: FORD MOTOR CO.  
Architects: ALBERT KAHN ASSOCIATED ARCHITECTS & ENGINEERS, INC. WELTON BECKET & ASSOCIATES  
General Contractor: BRYANT AND DETWILER CO.  
Contract Hardware: RANGER ASSOCIATES, INC.



See your hardware consultant for experienced assistance in selection of builders hardware

Write for your copy of the award-winning Grant Catalog

## GRANT SLIDING HARDWARE



GRANT PULLEY AND HARDWARE CORPORATION

49 High Street, West Nyack, New York • 944 Long Beach Avenue, Los Angeles 21, Cal.

sliding door hardware • drawer slides • drapery hardware • pocket frames • pulls • special sliding hardware

# BEFORE YOU INSTALL ANY FLOORING

Read this about HARRIS BondWood®

## THESE FEATURES SAVE YOU MONEY!

**SOLID HARDWOOD FOR ADHESIVE INSTALLATION**—goes down and stays down in exclusive Harris Adhesive Mark 10 over concrete or wood.

**GREATER STABILITY**—Bond Wood changes grain direction every 4 3/4" resulting in a minimum of contraction and expansion.

**TIGHTER FIT**—Exclusive adhesive and unique construction prevents shifting—makes BondWood the most stable parquet ever designed.

**ELIMINATION OF SQUEAKS**—Bond Wood is solid hardwood, without tongue and groove—no hollow noise, no squeaking.



## THESE FEATURES MAKE YOU MONEY!

You'll find that BondWood's many advantages are immediately apparent to Home Buyers. Here's a parquet that lets you offer...

**UNLIMITED PATTERNS**—BondWood can be installed in a variety of patterns—plain, with divider strips, with insets, etc. Available in Oak, Walnut, Maple, Beech, Cherry and other domestic and imported hardwoods.

**NO DIRT-CATCHING CRACKS**—BondWood units are unbeveled, square-edged, with flush joints—no gaps, no cracks to catch dirt.

**THICKER, LONGER WEARING SURFACE**—BondWood's wearing surface is 81.8% thicker than laminated block. Gives years of extra life.

*Bond Wood units are 5/16" x 19" x 19", composed of 16 squares, 4 3/4" x 4 3/4", consisting of several small slats and held together with paper which is removed during installation.*

Send for free brochure today.  
See our catalog in Sweets.

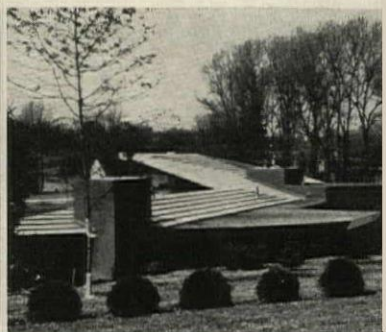


**HARRIS BondWood®**  
QUALITY FLOORING SINCE 1898

HARRIS MANUFACTURING CO., DEPT. AR-59, JOHNSON CITY, TENN.

New Homebuilt  
Technic

Continued from page



*METALS dramatize these two homes—top—terrace roofs dominate house by Lloyd Wright; bottom—roofs, walls and grilles are among the many uses of aluminum in this house by Charles Goo*



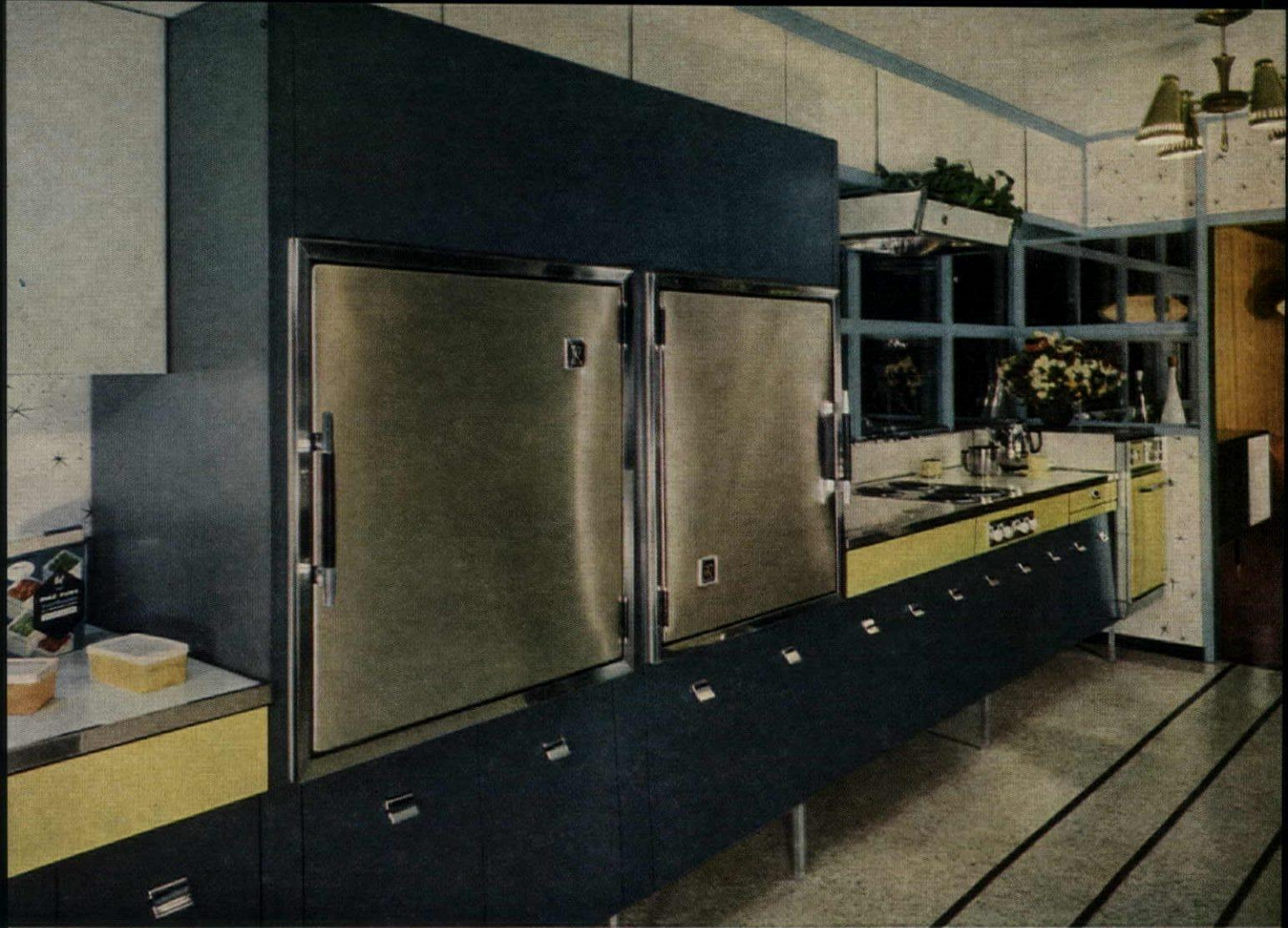
threads in towels, rugs, drapery upholstery fabrics. Linoleum is available in clear colors as well as greater variety of patterns; asphalt tile is being rivaled by low vinyl asbestos products.

Hardwood flooring, with all permanent factory-applied finishes available in strip, plank and parquetry squares. Finally, a new process stabilizing wood fibers by "stringing" has made available a 1/8-in.-real wood tile, to be applied like asphalt or vinyl tile. Probably no other of the house enjoys such a greater variety of choices in materials and uses as floors.

In the selection of a finishing material for interior walls or ceilings we are no longer limited to plaster. Included now are the dry wall materials of gypsum, plywood, fiberboard and hardboard. Gypsum board application, frequently more costly than plaster, has been proved to eliminate nail "popping." Fine wood plywoods may now be installed with "secret" fastenings and acceptable jointing systems. Acoustical patterns in acoustical materials reduce the annoyance of noise. Veneered fabrics in a variety of colors and textures give a durable finish.

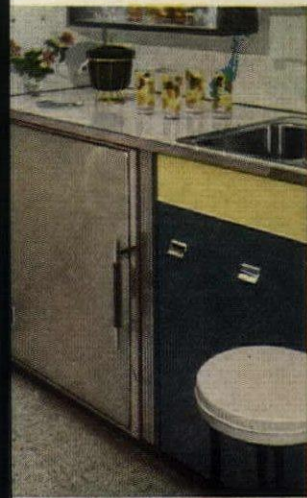
Continued on page





Kitchen by Design Dimensions, Inc

# REVCO Bilt-In Refrigeration gives your kitchen a forever new look!



Revco, first to introduce built-in refrigeration, has set a lasting trend. Because of their classic design, outstanding performance and enduring beauty, Revco Bilt-Ins have earned a place among the finer possessions in beautiful homes.

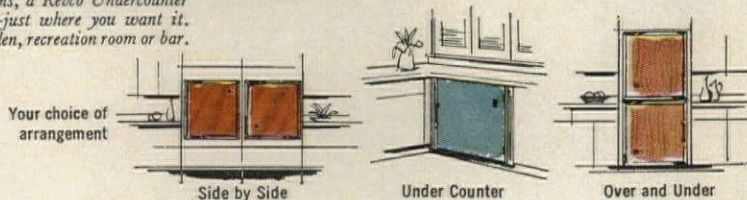
Revco owners never have to worry about annual model changes which make their kitchens obsolete.

There is no substitute for the charm and elegance that Revco Bilt-Ins impart to your new or remodeled kitchen. When you begin your kitchen planning, consider built-in refrigeration first.

Revco units are available in the incomparable *Gourmet* Refrigerator, the Custom Ice-maker and Custom Freezer. The unique modular design makes it possible to build in refrigerators and freezers anywhere, even under counters, in any combination, for the utmost in convenience and efficiency. Only Revco offers choice of finish: stainless steel, copper-glo, matching wood and 25 decorator colors.

Ask your qualified Trend Setting Kitchens Planning Center dealer to help plan a forever new kitchen just for you.

Idea in kitchens, a Revco Undercounter or Freezer—just where you want it. In the kitchen, den, recreation room or bar.



## Send for "HOW TO PLAN A TREND SETTING KITCHEN"

An outstanding collection of forever new kitchens, with exciting ideas for colors and arrangements.

Revco, Inc.      Dept. AR-59  
Deerfield, Michigan

Enclosed please find 25¢ to cover mailing and handling of "How to Plan a Trend Setting Kitchen."

I am interested in  new or  remodeled kitchens.

Name \_\_\_\_\_

Address \_\_\_\_\_

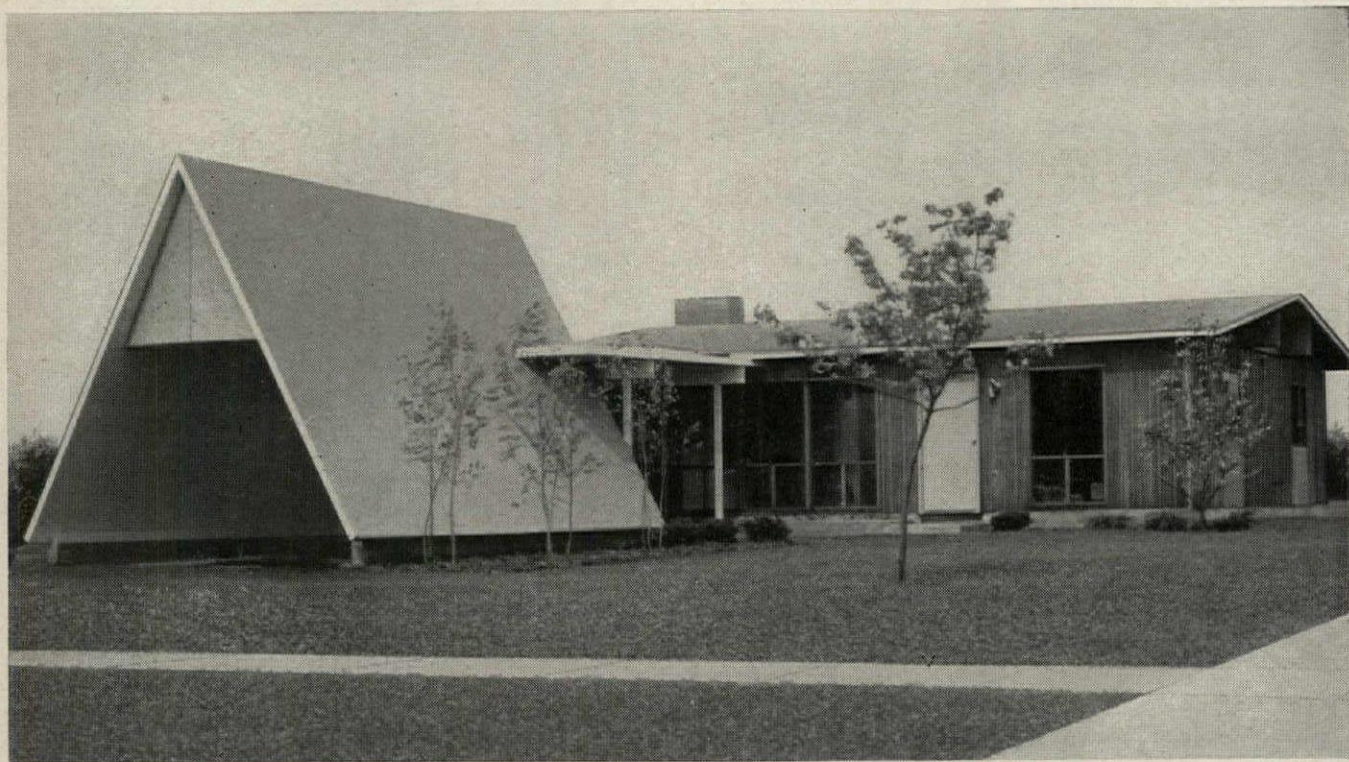
City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

# REVCO

Setting trends in refrigeration since 1938

NAHB Research House features

# Climate by Chrysler



1959 NAHB RESEARCH HOUSE, South Bend, Ind. Three bedrooms, one bath, fully air conditioned. Built to sell below \$15,000. Sponsor: NAHB Research Institute. Builder: Andrew S. Place. Architectural Design: NAHB Research Institute. Consulting Architect: Herman York.

## New high-quality air conditioning, heating and air purification for a low-budget home

Perfect year-round climate for a limited-budget home . . . that's the contribution of Chrysler engineering to the NAHB Research House in South Bend, Ind.

Climate by Chrysler is the next step beyond mere air conditioning. A touch of the finger, and the exclusive Chrysler Climate-Minder automatically controls heating, cooling, and humidity conditions.

What's more, the system actually purifies indoor air. It traps even the tiniest particles of dust, dirt, and pollen electrostatically. Kills air-borne germs electronically. And, it absorbs smoke and odors almost magically.

This Chrysler heating-cooling-air purification system takes so

little space it can be hidden away in a closet. Or if used in basement or utility room, its handsome cabinet blends attractively with any decor.

Climate by Chrysler is the kind of luxury-home feature everyone wants. Yet it's so low in cost it can be included in a quality home like the 1959 NAHB Research House that's built to sell for less than \$15,000!

Climate by Chrysler is the perfect answer to any home heating and cooling problem. And it's available now from Chrysler Airtemp Dealers. For all the facts and figures, call your local dealer today. Or write: Airtemp Division, Chrysler Corp., Dept. M-59A, Dayton 1, Ohio.



FIRST WITH THE FINEST IN AIR CONDITIONING



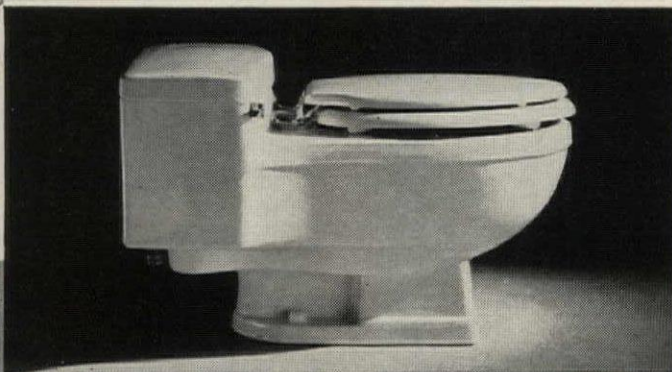
**Vitreous Enameling Iron Tub:** Briggs unique process permits porcelain finish to be fused *into* the metal rather than merely *on* it as occurs with other finishes. Result: Full-depth tubs are chip- and acid-resistant, colors won't fade.



**YES,  
THERE IS A DIFFERENCE  
IN PLUMBING FIXTURES!**

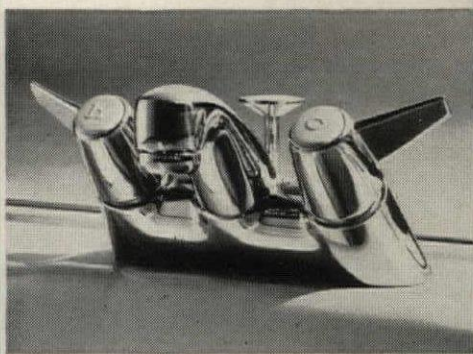
*Briggs Beautyware proves it  
with these sales features... and more!*

**Smooth, Easy-Cleaning Contours** and vitreous china surfaces have the built-in beauty of Briggs compatible colors. Certain to be points of pride with your home owners.



**Nearly Noiseless, Syphon-Jet Operation** of the "Emperor" Closet is a Briggs feature that makes a difference... as does the streamlined, one-piece styling, fashioned of high-density vitreous china.

Now available to help you sell homes with Briggs Beautyware: the complete Briggs Spring Builder Promotion. Get more information from your Briggs representative.



**Interchangeable Color Inserts** for new Briggs fittings—an idea that color-matches fittings with Briggs fixtures. Inserts slip neatly, securely into place... make an important selling difference.

**BRIGGS**

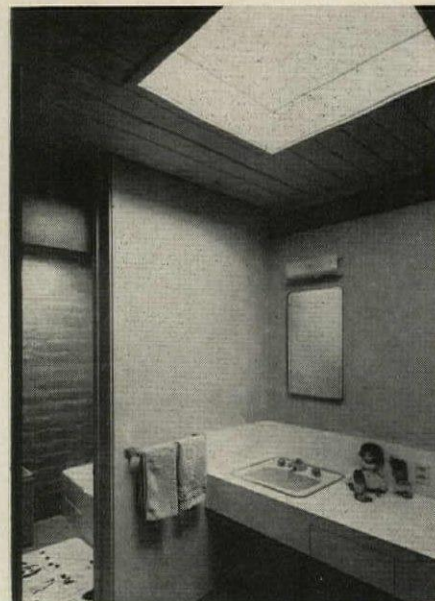
B E A U T Y W A R E

Continued from page 30

kitchen and bathroom walls as well as coverings for folding doors and partitions. Brand new are textured wallpaper products made lasting and scuff-resistant with thin plastic films. Manufactured plastic melamine laminates are no longer limited to sink and counter tops but may be installed on vertical surfaces in sheet, plank and tile form. Clear or translucent plastic sheets incorporating decorative fabrics and natural materials may be used for tub walls, space dividers, door panels, ceiling panels.

**DOMESTIC APPLIANCES.** Of all the areas of the home of the 1950's in which one might say a Fairy Godmother's wand had created the most magic transformations are those of the kitchen and laundry.

By pushing a button dishes are washed and dried, garbage ground up and flushed away, foods chopped or liquified or mixed, cake batter whipped, dinner cooked while the housewife shops or takes the children for a swim, clothes washed and dried—the list is endless.



PLASTIC skylights and countertops simplify housework and brighten this bathroom by Knorr-Elliott (Record Houses of 1958)

*Now...for fashion...forever—*

**STAINLESS STEEL**  
**SINK**  
MATCHED **SINK FRAMES**  
**BOWLS**

**VAN SEAL**



**STAINLESS STEEL SINK BOWLS ARE BEAUTIFUL**

A lifetime "Butler" satin finished deck, with Van Seal's exclusive "Highlite Embrace" provides a highly polished bowl outline with a blending interior bowl finish . . . beauty and service for tomorrow's kitchens today.



**PROVIDES ALL YOUR STAINLESS STEEL SINK BOWL NEEDS . . . THREE COMPLETE LINES . . .**

with more than 45 models or sizes in each line.

- For custom builders and discriminating specification needs, specify the Van Seal 18 ga. type 302, 18-8 Stainless Steel Sink Bowl.
- For the popular volume market and stock demands, specify the Van Seal 20 ga. type 302, 18-8 Stainless Steel Sink Bowl.
- For economy demands, specify the Van Seal "Alpine" 20 ga. type 430 Chromium Stainless Steel Sink Bowl.

Insist on *Van Seal*—where *quality, service* and *performance* make the difference.



**VANCE**

**INDUSTRIES INCORPORATED**  
7409 W. WILSON AVE. • CHICAGO 31, ILLINOIS

Not only has the ease of doing housework been increased by new appliances themselves, but the appearance of kitchens, bathrooms and laundries has been improved because all appliances and fixtures can now be built in. This feature adds to the clean lines of room arrangement as well as to greater ease in cleaning.

Actually, developments in homebuilding and home products have all reflected the changed philosophy of life in America which has been growing steadily but, until the past two decades, unobtrusively. The emphasis in every walk of life has been on ease, relaxation, luxury—and when to that there is added the fact that servants as we knew them in the past are no longer obtainable to help inside a home or about the grounds, it has been necessary for manufacturers to consider all of the labor-saving elements in the design of new products. The speed of adjustment to changing conditions in this country is almost as exciting as the materials and techniques which this adjustment produced. To the average home owner, the philosophical aspects are relatively unimportant; but few are insensible to the lure of a house whose floor plan offers comfort and livability; whose design makes possible beauty at lower cost; and whose materials guarantee maximum durability with minimum maintenance. In all these ways has the current industrial revolution provided us with a better life—and what it offers now is, as in any age, merely a hint of more wonderful things to come.





## cedar fans freshness into home design

*Favorable first impressions* are assured when you combine fresh design with quality merchandise. Certigroove cedar shakes give you the best of both. The deep-etched striations add interest to a wall and mask joints between shakes. Double-coursing with shakes creates bold shadow accents for home exteriors as well as superior insulation in all kinds of weather.

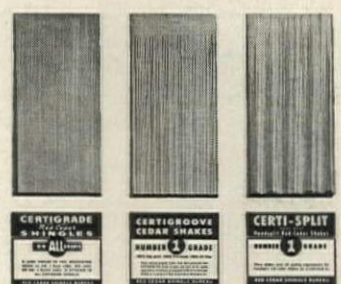
Available in a wide array of colors, applied under controlled factory conditions . . .

Certigroove cedar shakes answer your need for an exterior wall material with design versatility, low applied cost and enduring good taste.

## RED CEDAR SHINGLE BUREAU

5510 White Building, Seattle 1, Wash. • 550 Burrard Street, Vancouver 1, B. C.

For complete application details on Certigroove cedar shakes, see the current Sweet's Catalog . . . or send coupon . . .



Name \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

(1) Two REUTEN Tru-Bows add lines to this modern, small-town house. Above the garage, 43-OR, in the 63-OR. Insulated glass may be used in this popular window.

## REUTEN TRU-BOWS • TRU-WALLS

A complete line of wooden window walls ranging in design from the extremely fine lined "Colonial" to the massive ruggedness of "Modern."

# add beauty inside and

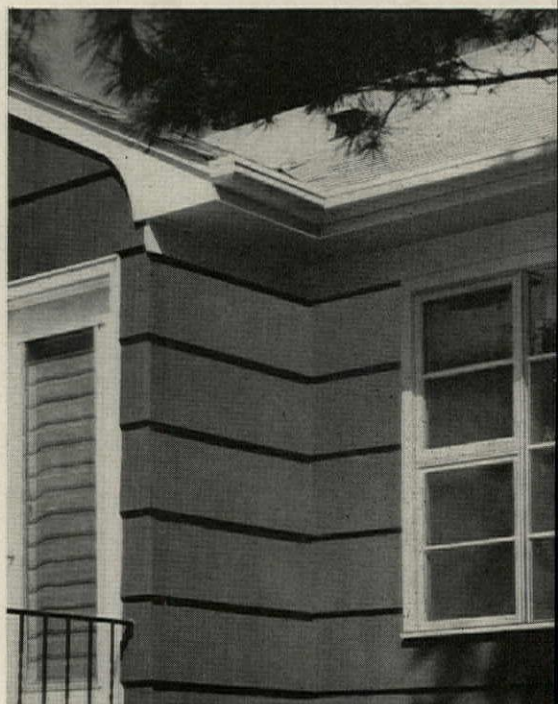
ALL REUTEN windows are manufactured from top quality soft textured pine for mullions and jambs, and vertical grain fir for heads and seats.

REUTEN windows are available in over sixty combinations of styles, pane shapes, and vent positions. They are manufactured to last the life of the house. Only the finest grades of wood are used in their construction, and every joint is "dovetailed" for added strength and complete weathertightness. ALL REUTEN windows receive a "Woodlife" treatment for resistance to aging and insects.

These windows are available through regular mill-work channels. For the name of your local supplier or more information about these windows, see our catalog in Sweet's or write:



**FRED REUTEN, INC.**  
C L O S T E R , N E W J E R S E Y



(4) REUTEN's OMF Series utilizes fine narrow mullions and large glass areas to add grace to any house. The end sections can be vented as shown in this illustration of the OMF.

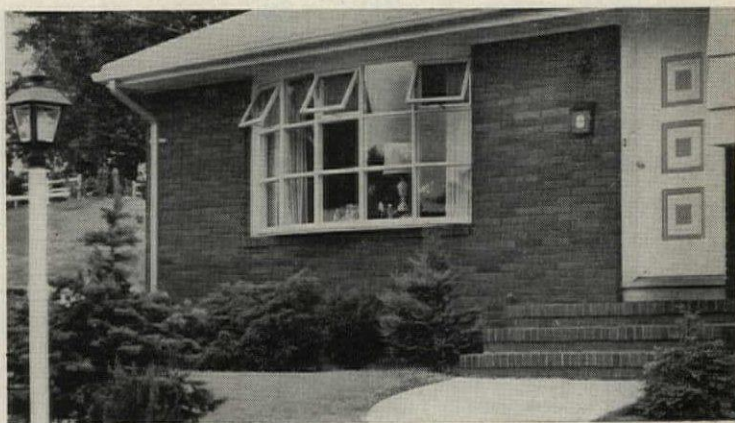
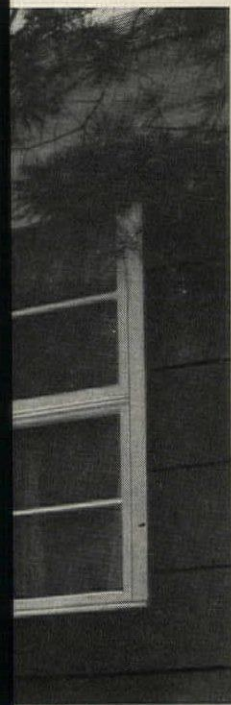
(5) REUTEN's newest window, the recent OC Colonial line. This window features extremely fine lines designed to resemble the architectural style of America's "Colonial" period. The mullions on these windows are too narrow to permit the use of insulated glass; however, storm panels can be used. The OC windows are, of course, joined with the unique REUTEN DOVETAILED joint.



outside



**(2)** Side vents make this REUTEN 54-OM Tru-Bow ideal for installation in dining rooms and other areas that require proper ventilation. Note the screens mounted on the inside, a feature of all REUTEN vented sections.



**(3)** REUTEN's OR line brings a touch of the solid, rugged look of today's architectural style to any house. Here a REUTEN 53-OR Tru-Bow serves as the center of interest on a contemporary suburban home.



## A Report On Home Furnishings

Continued from page 13

in these weavings derive from such unexpected sources as Arabic calligraphy and Aztec ruins. Usually closely spaced, small and executed in tone-on-tone colorings, these quiet patterns are a far cry from the bizarre free form abstractions so popular a decade or less ago.

Where prints do exist they are often oversized and cover an entire panel, creating almost the effect of a mural painted on fabric.

One flat weave is iridescent, woven with two colors of yarn. The technique is borrowed from the extrava-

gantly expensive handwoven silks of Siam and India but inexpensively adapted in our own country to power looms and yarns of rayon and cotton.

ACCESSORIES REFLECT WIDENING HORIZONS OF TRAVEL. Ashtrays, boxes and other bibelots record the homeowner's voyages. More Americans than ever before in history toured Europe last year and, apparently while doing it, scoured foreign markets for everything from contemporary ceramics to century-old carvings. These accent the international

flavor most characteristic of American interior design today.

Collector's choices for 1959 are not restricted to modern painting. Equally appealing are primitive sculptures whether pre-Columbian African or Polynesian, reviving trend of the twenties when these anachronistic objects first became popular for decorating modern rooms.

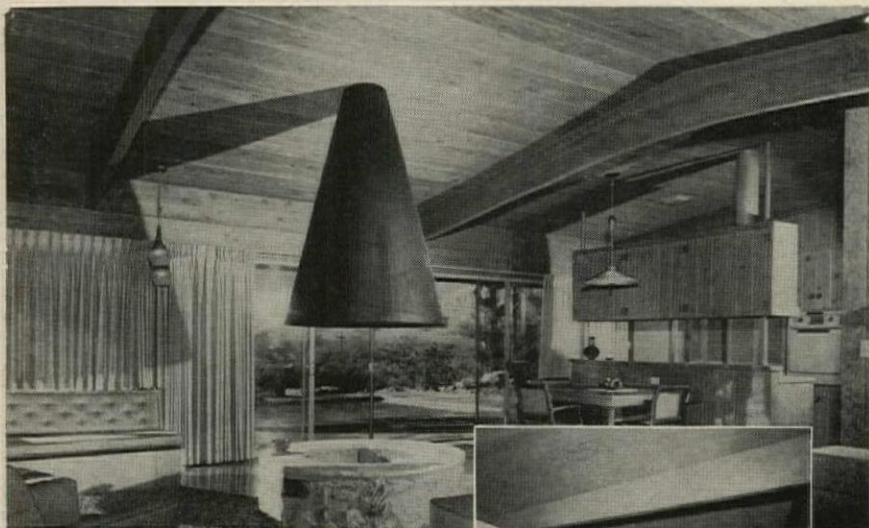
KEYNOTING THE COMPLETED ROOM IS A MOOD OF ELECTICISM. The perfect period room—either modern or traditional—with each object in harmony is rarely seen today. Windsor chairs are paired with a plastic-topped table. An antique Korean chest may well keep company with chrom-based leather sling chairs.

To blend such an assortment of elements takes special skill. Color can be helpful. Schemes today are often based on tones of a single color or perhaps on adjoining colors: blue with green, yellow with orange. Sharp contrasts might add to confusion but these gentler color schemes help create a relationship between superficially unrelated objects.

Furniture arrangement has entered a new phase. The open floor plan has forced chairs and sofas away from the walls of a room and out into the middle of it. The continuing appeal of television has created the need for more seating. Longer sofas and more chairs are the result.

The focal point of many a living room is more often than not what can best be described as the cluttered wall. This descendant of the Georgian breakfront and the Victorian what-not, like its forebears, holds books, mementos, art works and crafts.

Unlike its more formal predecessors, however, this wall is composed of a simple series of open shelves arranged in an asymmetric pattern. Such walls are so persistently present they may well become the hallmark of mid-twentieth century decoration.



Rilco laminated wood beams from 30 ft. to 42 ft. long were used. "They all worked PERFECTLY" said the builder.

### "I Can't Say Enough for the Rilco Beams!"

Writes Mr. J. F. Salyers. "They all fit perfectly with no twists or crowns. No sanding or filling was required. The Rilco beams have all the advantages, plus strength, of wood and none of the disadvantages. The finished appearance is so much better that there is just no comparison.

"We have had plenty of comments about these beams and they are mostly the same: 'They are beautiful.' 'Can you work them in our plan?'"

Striking Rilco laminated members blend well with any architectural style—allow wide latitude of expression with complete design freedom. And Rilco members retain their beauty, require little if any maintenance, increase their warmth with age—resist warping, splitting, cracking.

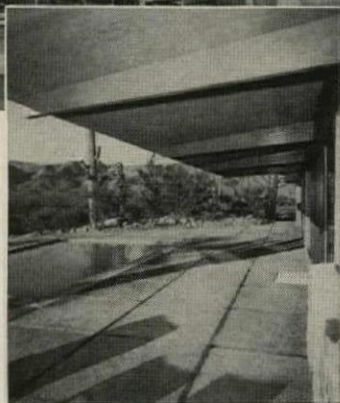
Laminated members are available in sizes difficult or impossible to obtain in solid construction. And now Rilco stocks standard-size flat beams, assuring prompt delivery with the low price of volume production.

**RILCO**  
*works wonders with wood*

### RILCO LAMINATED PRODUCTS

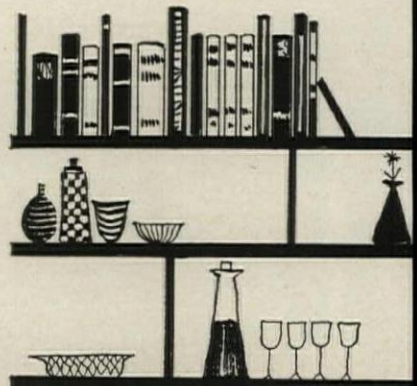
W 818 1st National Bank Bldg., St. Paul 1, Minn.

District offices: Newark, N. J. • Fort Wayne, Ind. • Tacoma, Wash.



Residence, Tucson, Arizona  
J. F. Salyers, designer  
Casa Mesa Homes, builder

Rilco members and Rilco Deck may be able to help you solve a design problem. For complete information contact your nearest Rilco office.





More women cook on ranges made  
by Hotpoint than any other kind

Hotpoint has made more than 5 million electric ranges, more than any other manufacturer. Such dramatic public preference clearly demonstrates the customer satisfaction Hotpoint quality delivers.

When you specify Hotpoint appliances in your homes, your clients know you have selected the very finest available. This superiority is evident in the quality

of construction details, the advanced styling and the modern conveniences inherent in every Hotpoint product.

And, Hotpoint constantly reinforces its public preferences through imaginative advertising in America's leading publications. The beautiful kitchen shown above was seen by over 15 million readers of LIFE, POST and AMERICAN HOME this Spring.

Specify Hotpoint quality and you specify client satisfaction.

# Hotpoint

Look for that difference

A Division of General Electric Company, Chicago 44, Illinois

ELECTRIC RANGES • REFRIGERATORS • AUTOMATIC WASHERS • CLOTHES DRYERS • CUSTOMLINE®  
DISHWASHERS • DISPOSALLS® • WATER HEATERS • FOOD FREEZERS • AIR CONDITIONERS



## Reflection of Quality in Garage Doors

No matter how you look at it, a RO-WAY Garage Door reflects the finest in quality.

In styling, for example, you can see at a glance how its clean, simple lines enhance the design of the homes you build.

In construction, its selected woods and husky hardware are put together with cabinet-maker skill for lasting service . . . muntins, rails and stiles precision squared for perfect fit; mortise and tenon joints both glued and steel pinned for extra strength; sections rabbeted to make weather-tight joints; surfaces smoothly sanded for finest finish.

In operation, too, every RO-WAY door is unsurpassed. With specially designed Taper-Tite track, ball bearing rollers, and springs tension-balanced to the weight of the door, smooth, quiet performance is assured for years.

Yet, with all this quality RO-WAY garage doors are competitively priced. So why settle for less? Call your RO-WAY distributor for full details—he's listed in the Yellow Pages.

*For added convenience, install the famous RO-WAY Model 80 Electric Operator with push-button or remote radio control*

### ROWE MANUFACTURING CO.

1508 Holton Street • Galesburg, Illinois



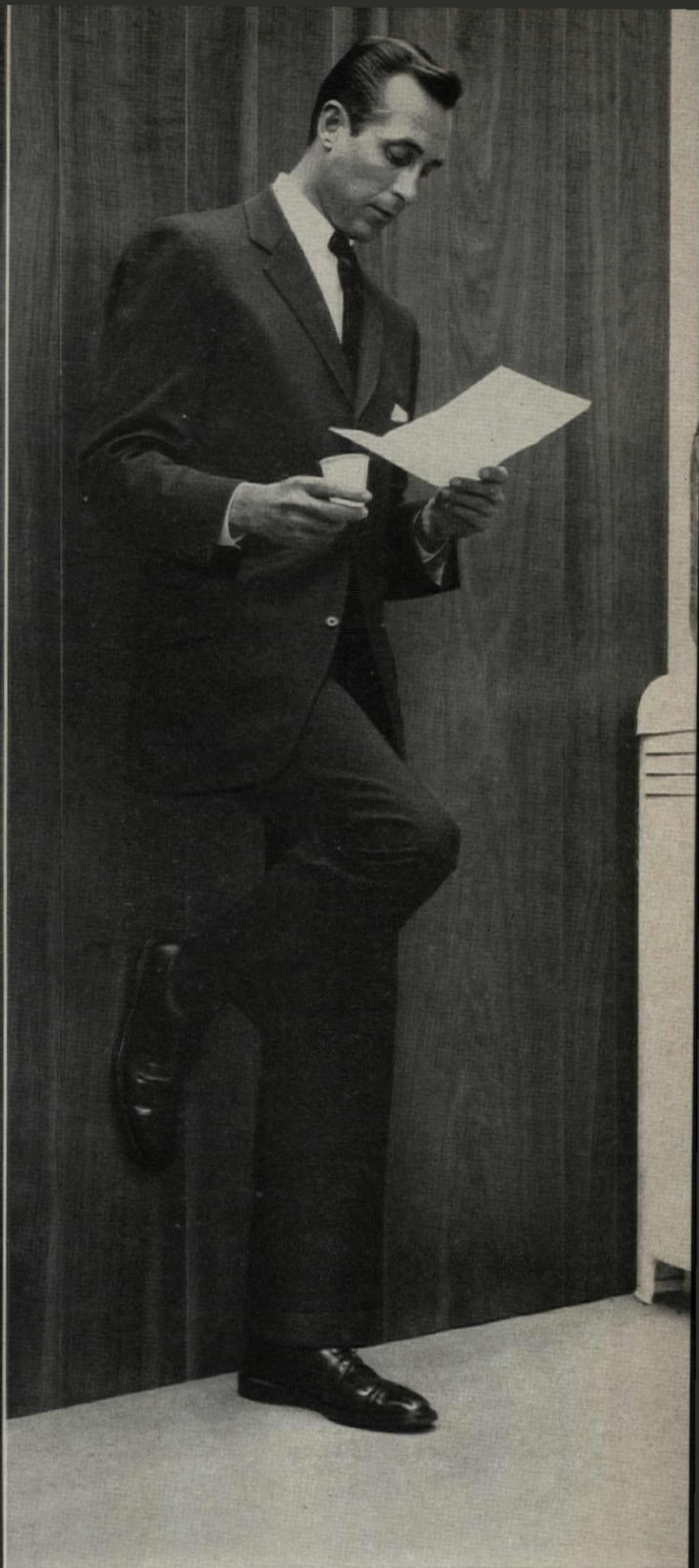
*there's a Ro-Way*



*for every Doorway!*

RESIDENTIAL • COMMERCIAL • INDUSTRIAL

restige  
aneling that's  
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Georgia-Pacific factory-finished hardwood plywood paneling combines beauty and function so successfully. The new low-gloss catalyzed resin finish is tougher, more resistant to soil, stain and abrasion than any finish ever used on paneling before! And you have a wide choice of fine hardwoods in any of your finest designs. For walls that never need repainting or replacement, that cut maintenance costs to a minimum, choose from Georgia-Pacific factory-finished paneling. Write for samples.

Architect's Architectural File Sec. 5B.



**GEORGIA - PACIFIC**

Georgia-Pacific, Dept. AR559, Equitable Bldg., Portland, Ore.  
Plywood & Redwood • Lumber & Hardboard • Pulp & Paper



"1959 Record House" in Rhode Island. Cabot's Stains used.  
Architect: Hugh Stubbins & Associates, Cambridge, Mass.

Another "Record" year!

# Cabot's PAINTS and STAINS

specified for  
**7 of the 20**  
**1959**  
**"Record Houses"**

For the fourth consecutive year . . . Cabot's has been chosen by a big percentage of the winning architects. They know that Cabot's Paints, Stains and Stain Wax offer colorful, long-lasting protection. So, for client satisfaction . . . specify Cabot's.

*Cabot's products were specified by these architects:*

- ARCHITECTS COLLABORATIVE**  
Cambridge, Massachusetts
- ALFRED L. AYDELOTT & ASSOCIATES**  
Memphis, Tennessee
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Los Angeles, California
- ELIOT NOYES & ASSOCIATES**  
New Canaan, Connecticut
- HUGH STUBBINS & ASSOCIATES**  
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## **SAMUEL CABOT INC.**

529 Oliver Building, Boston 9, Mass.

Please send color card on Cabot's Paints and Stains.

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## Equipment for Kitchens and Baths

*Continued from page 26*

With the emphasis on built-in storage space, vanity lavatories which enclose the fixture in a cabinet with flanking countertops, enjoy great popularity with women. Vanity lavatories may be purchased as pre-fabricated units, or the fixture bought separately for mounting in a custombuilt cabinet.

Lavatories, even of the smallest size, make generous provision for storage space to lay out cosmetics and shaving accessories, either on a raised shelfback behind the fittings, or on the rim around the bowl. Lavatories are of three types from the standpoint of manufacture—vitreous china, enameled iron or steel.

The chromium-plated brass fittings of lavatories—fingertip control faucets and pop-up drains—have for the most part been subject to the same process of restyling as the fixtures themselves. Single-handle faucets for tempering the water supply to lavatories are now available with a number of models, in addition to the more familiar type of fixture with twin handles and a single mixing faucet.

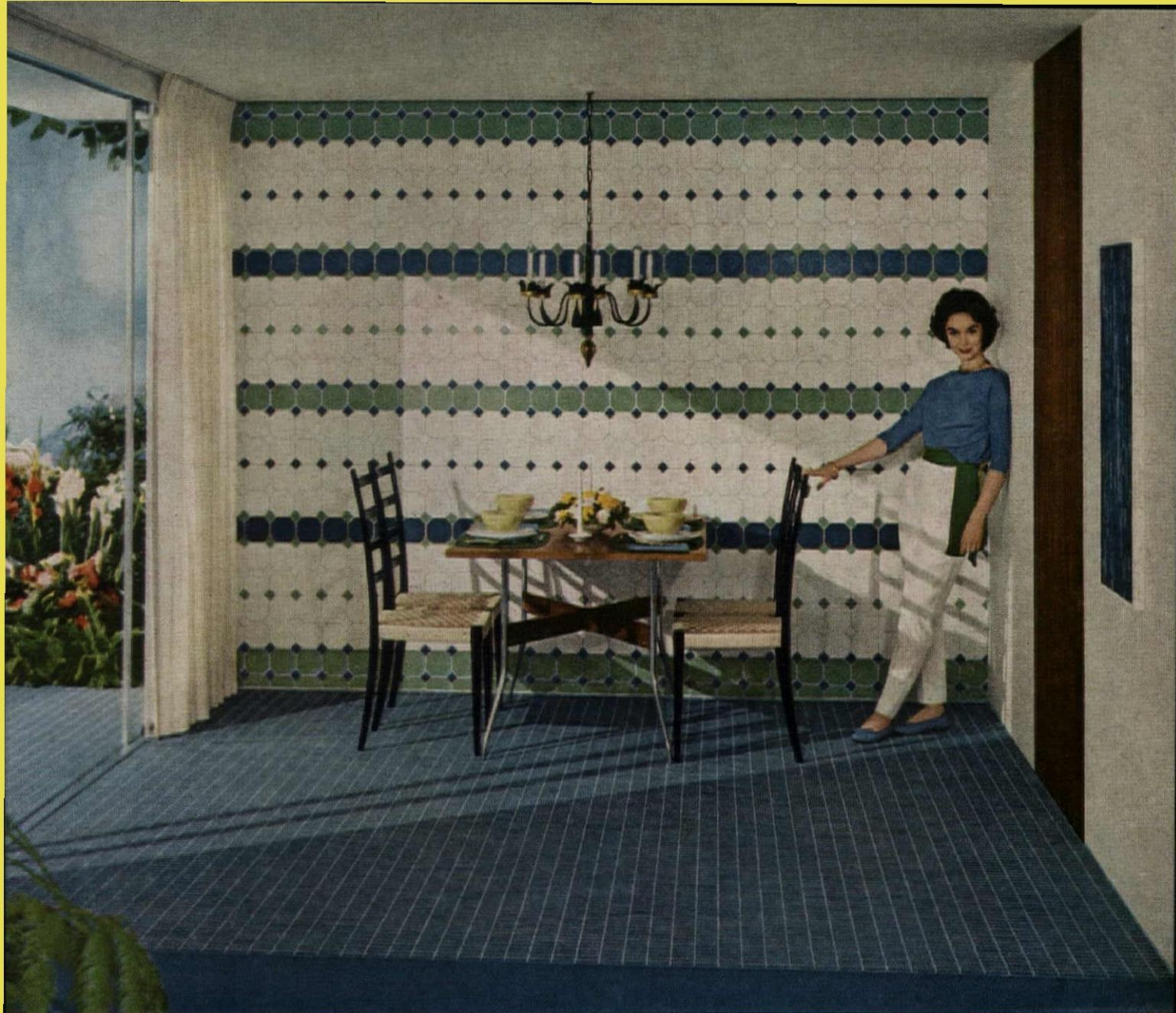
Single-handle thermostatically-controlled mixing valves for overhead bathtub showers are gaining in popularity, because they make it possible to dial the exact temperature desired, holding it at that point. Twin handle controls for water supply lines to the bathtub usually feature a diverter valve in the mixing spout to channel the water into the showerhead above.

Water closets or toilets fall into two general categories as far as construction is concerned—close-cou-  
*Continued on page 46*

*Well designed cabinets are also on hand for bathroom and dressing areas. They adapt to most standard fixtures. The ones shown are part of a series by Paul McCobb*







...om of distinction, designed by Emily Malino Associates. Wall is  $4\frac{1}{4}$ " Octagon and Dot in 56 Leaf Green, 345 Cr. Cobalt and 365 Cr. White. Floor:  $1\frac{1}{16}$ " x  $2\frac{3}{16}$ " Oblongs, Azure Textone. Color Plate 89.

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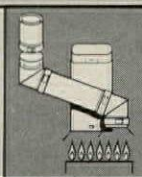
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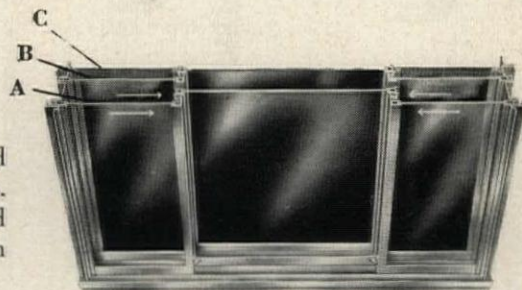
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A Interior sash B Storm sash  
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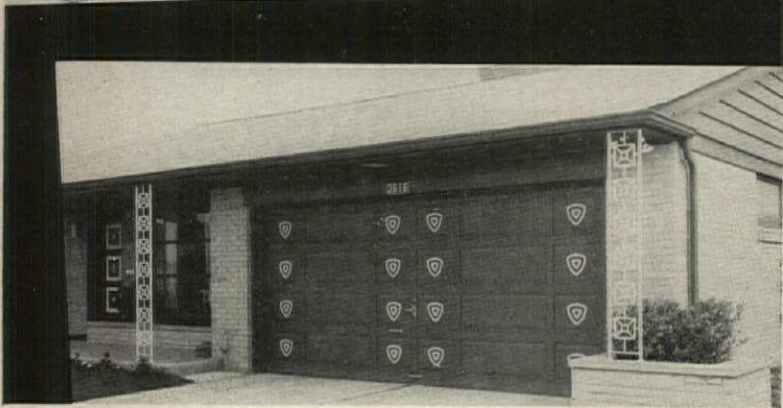
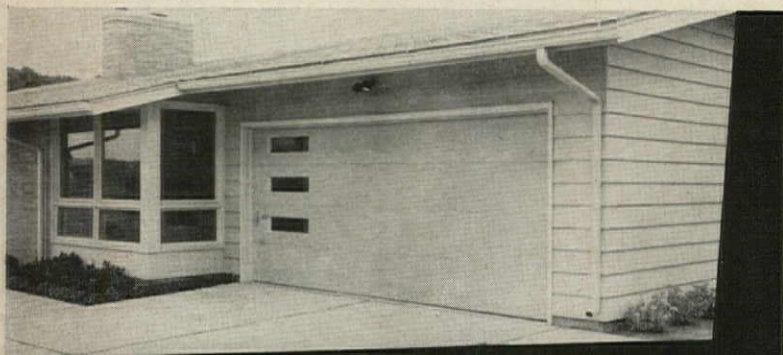
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## Equipment for Kitchens and Baths

Continued from page 42

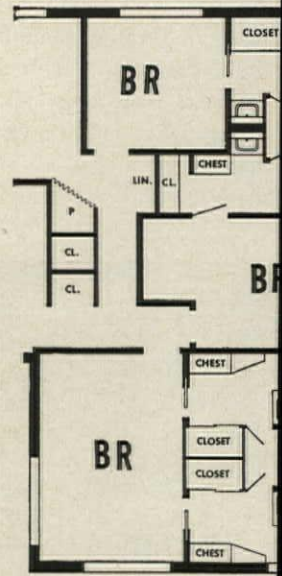
pled units with tank and bowl in close proximity to each other, or the one-piece type featuring tank and bowl in a single vitreous china casting. Whichever the type, modern closets have a large water surface, a decided aid in keeping them clean and sanitary at all times. They flush quietly and rapidly. Deluxe closet combinations feature non-wetting tanks, which keep floors dry in humid weather.

A number of manufacturers are now making a closet with the bowl suspended from a wall hanger and the flush tank completely concealed between the studs behind the wall. Since the fixture does not touch the floor at any point, the problem of floor cleaning and maintenance is greatly simplified.

The attractive colors of modern bath fixtures have been duplicated in kitchen sinks, which in turn match the tones of ranges, refrigerators, and storage cabinets for complete color harmony. Even laundry trays these days sport the same appealing colors as automatic clothes washers and dryers. In such cheerful surroundings to do her work, the housewife has little cause for complaining about those washday blues.

It would be unusual, to say the least, if in a period during which plumbing fixtures underwent such sweeping changes in styling, if not in function, there had not also been a very marked change in the planning of bathing areas themselves.

Such a change was heralded a year ago in Miami with the introduction of Privazone, a new design which affects the sleeping area quite as much as the bathing area, below.



The "Privazone" idea joins compartmented baths, dressing areas and bedrooms to form suites. For a more detailed report, see RECORD HOUSES OF 1958, page 7



THIS SAME ROOM, decorated first in Contemporary American, then in French Provincial, is paneled in random plank style with Weldwood prefinished walnut V-Plank® and Weldwood Hardwood Trim.

## Choose modern or traditional—choose any colors— Weldwood paneling fits in with your decorating ideas

Walnut V-Plank is ready to go with Weldwood's exclusive easy-to-install finish—only \$75 for a 12' x 8' wall. The room above is a perfect example of how wood paneling brings luxury and interest to even the simplest of decorating schemes. You can change your decorating scheme as often as you wish. That's because Weldwood's wood paneling is warm, inviting, and rich in color. It adapts to any setting. Painting is no problem, either. Weldwood

paneling's fine furniture finish guards the wood's beauty against dirt and water as no other finish can. Just wipe it clean with a damp cloth.

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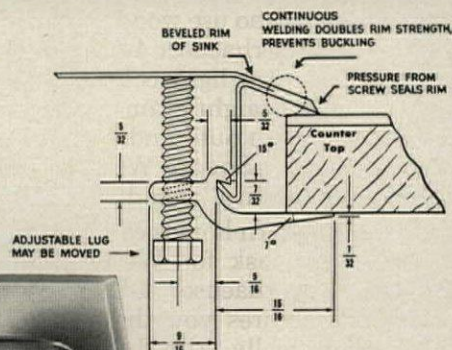
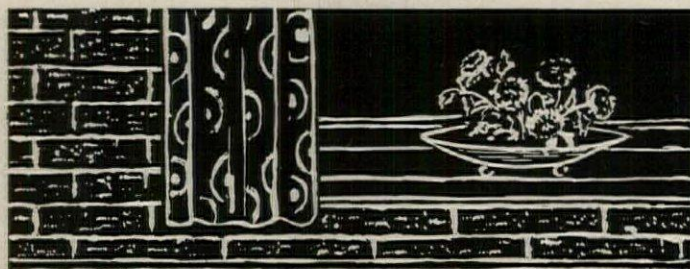
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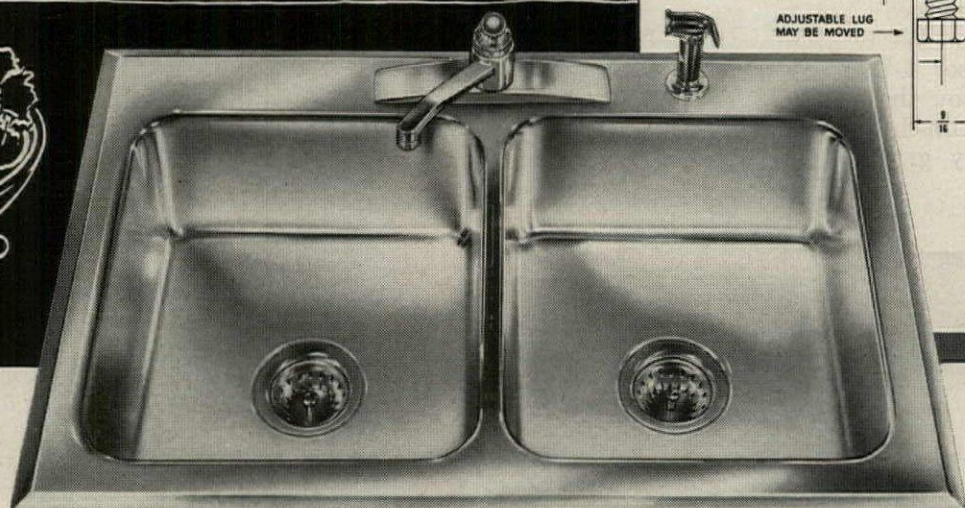
# THE NEW CARLRIM SINK

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All Carlrim sinks fit any standard cut-out. All Carlrim shipments contain simple installation instructions. Carlrim is helio-arc welded all around (not spot welded) so there is no possibility of dimples or spots showing up when the necessary lug pressure is applied during installation.

Ask your wholesaler to show you the new Carlrim design or else write Dept. 402 for the name of the nearest Carlton distributor. Sink Division, Carrollton Manufacturing Company, Carrollton, Ohio.

*You just can't buy better—when you buy...*

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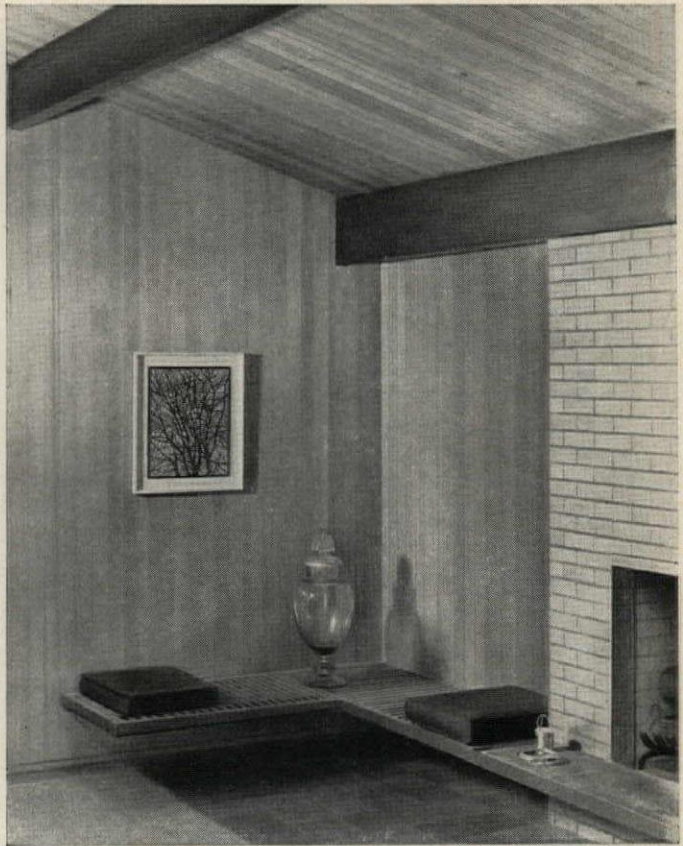
**DESIGN FOR TODAY  
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# West Coast Hemlock

Wood is recognized by architects of today as an important design element in its own right. In the creation of modern homes, the pattern and shape of exposed framing and the texture and color of finish lumber are used as important design elements.

Many architects who use wood in this manner are now specifying Weyerhaeuser 4-Square West Coast Hemlock. This strong, light colored, easy-to-work wood with its fine, straight grain combines excellent structural values with outstanding beauty. That is why Weyerhaeuser 4-Square West Coast Hemlock is known as the "ability" wood.

Designers of modern homes can specify with confidence when they ask for West Coast Hemlock carrying the Weyerhaeuser 4-Square trademark. The trademark assures you that this fine species has been scientifically kiln-dried, manufactured with precision, accurately graded, and carefully handled and shipped.



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Weyerhaeuser 4-Square West Coast Hemlock is ideal for framing, sheathing and siding application. It is excellent for flooring because it actually toughens with age. Among the many popular specialty uses are shelving, furniture, cabinets, paneling, and trim.

West Coast Hemlock is becoming increasingly popular as a finish lumber for both exterior and interior application. It is stiff and strong, easy to work and holds nails securely. It has a beautiful light color which takes natural finishes well, and also has remarkable paint retention qualities.

These are the reasons why architects are specifying Weyerhaeuser 4-Square West Coast Hemlock, the "ability" wood that ideally serves so many uses in both industrial and residential applications.



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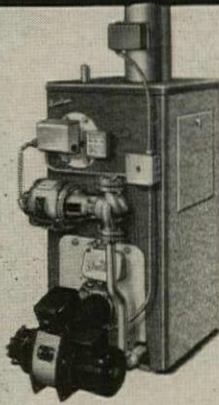
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## New Directions For Home Lighting

Continued from page 15

eliminate dark corners and unpleasant contrast. You can separate functional areas or unify them; you can raise ceilings or lower them; push walls away or bring them closer—all by brightness, color and shadow. Areas near glass walls can be lighted on both sides to banish the "black" wall effect at night; during the day, the interior light intensity can be variable to balance with outside light and remove glare.

Next, provide good lighting for the functions in each area of the house, whether it be kitchen, bath, sewing TV, or what. For example, kitchen light should be shielded to avoid glare and located so it illuminates work surface without shadows. Good bathroom lighting gives the man of the house light to see under his chin for shaving.

To functional and general light, add accent light for pleasurable surroundings. A sculpture, a painting, a fireplace or other architectural detail—whatever there is, can be lighted for dramatic significance.

### INTENSITY IN LIGHTING—

To color and "shape" we add controlled, variable intensity. In earlier days, gaslight allowed some flexible control of light, but Edison's incandescent lamp meant light intensity could only be controlled by the number of lights. Varying bulb sizes helped, and the introduction of the three-way bulb was another refinement. These are still useful means. But it wasn't until a few years ago when the Superior Electric Company adapted its theatrical dimmers for easy-to-install household use, that complete flexibility of control was widely available: the amount of light can be adjusted infinitely by turning a dial. You can create varied intensities for different activities in the same room—important in today's growing multiple use space. For example—in open living-kitchen areas, they provide a kitchen with full brightness necessary for food preparation; the lights can be turned down to unobtrusive background while dining. And last—outside lighting can enhance the details of any house.

Light fixtures are often being treated in a more architectural manner—as in this light trellis designed by Leslie Larson in a New York apartment by Richard Gordon, Architect







## ADD *Vina-Lux*<sup>®</sup>

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contractor to show you samples of this outstanding residential flooring. Available in 42 colors, 5 sizes and 3 thicknesses.

*Write for full information on Azrock's Model Home Program: Display floors, "hidden value" signs, identification cards, advertising and publicity.*

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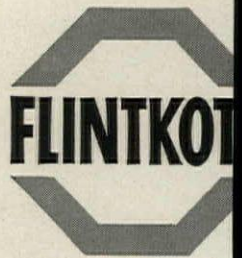
See why Flintkote says proudly . . .

## *Nobody* makes more of the products than make a "Record" house!

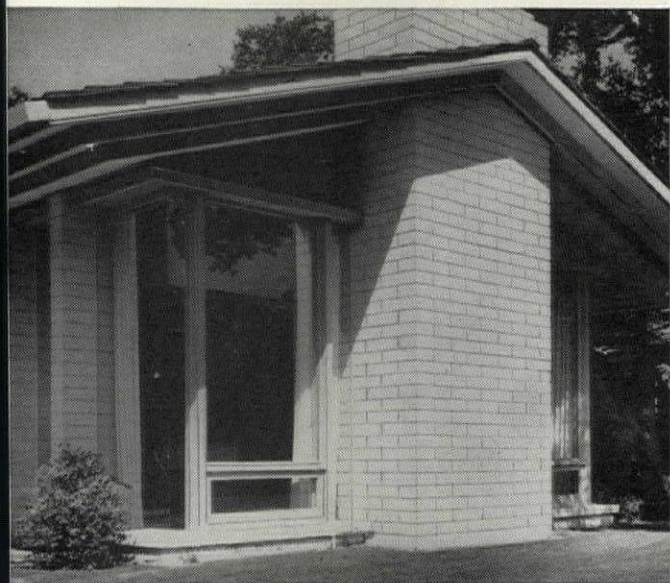
You make a good start for a "Record" house when you specify Flintkote building products. All are made together to "go together". The result: a perfect blending of style, design and function that gives new homes a custom look . . . your builders something extra to merchandise.

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Information on most Flintkote products appears in Sweet's Files. For more details, write: *The Flintkote Company, 30 Rockefeller Plaza, New York 20, N. Y.*

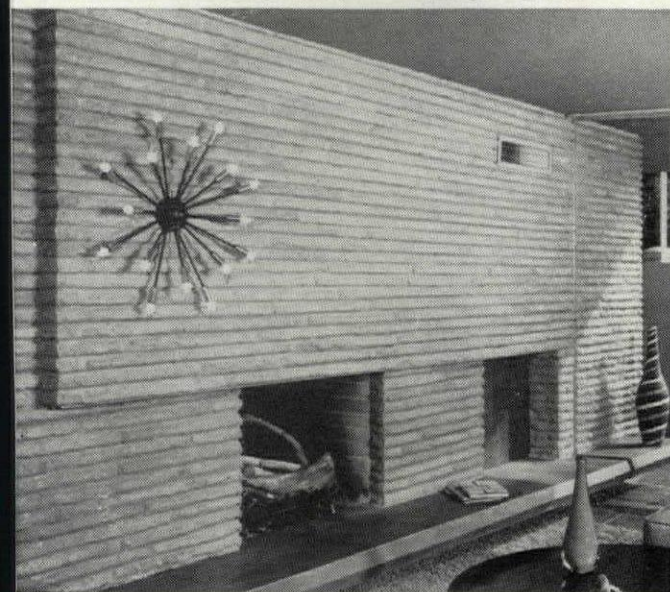


*America's Broadest Line  
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*Raked horizontal joints emphasize ground-hugging design of this house*

*Painted units add visual interest to this contemporary kitchen*



*Concrete slump block fireplace helps soften a modern setting*

*Design interest is achieved with coarse-textured block laid in a stacked bond*

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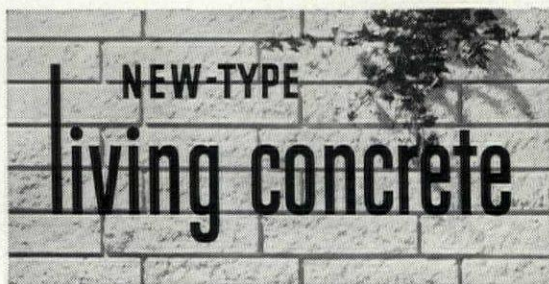
Indoors, too, new-type *living concrete* means modern living. It's warm, friendly, cheery . . . complements fabrics and furniture . . . creates interesting contrast with metal, wood and glass.

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are floored with Oak

than with all other  
floorings combined



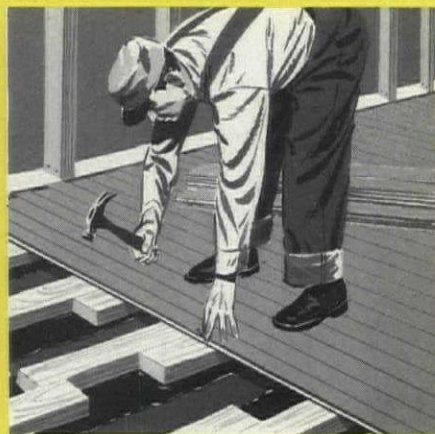
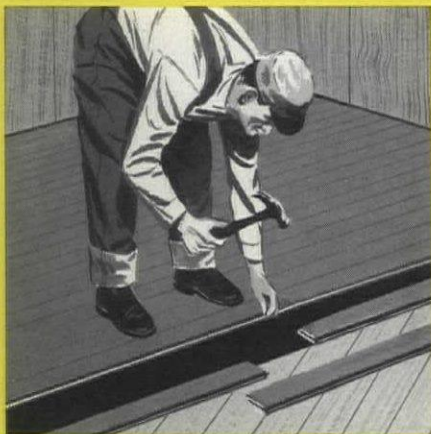
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ARCHITECT: Ivan R. Peterson BUILDERS: Wyatt & Coons

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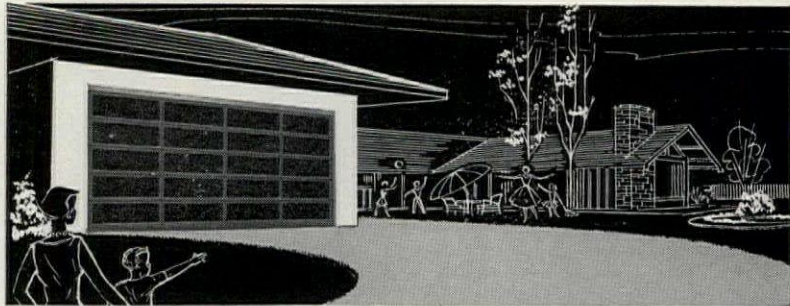


## A Beautiful Home Deserves

## A CRAWFORD GARAGE DOOR

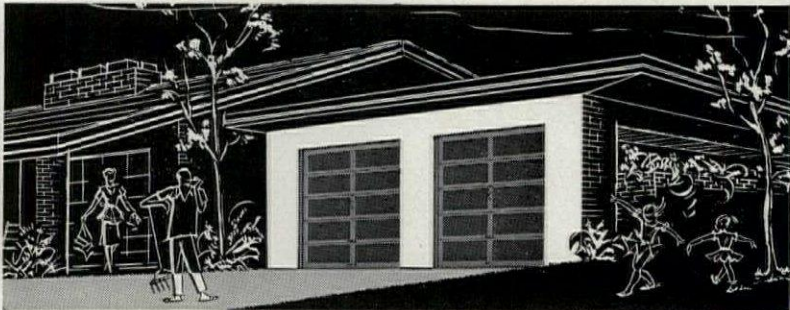
### • RICH, DISTINCTIVE STYLING

Designed for the discriminating, Crawford's custom-styled garage doors are the ultimate in dignified beauty and good taste. There's a style to harmonize with and enhance every type of architecture . . . a size to fit any garage door opening. And the basic beauty of a Crawford door can be richly "individualized" by adding color and the easy-to-apply decorator accessories available in Crawford's do-it-yourself customized Design Kit.



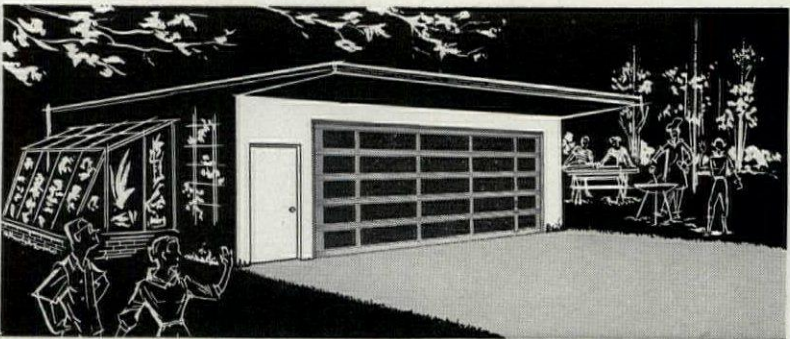
### • TROUBLE-FREE PERFORMANCE

Crawford's sectional construction, overhead action gives you a door that "floats" straight up and out of the way . . . no obstructing springs, arms or brackets are employed . . . nothing to pinch little fingers, catch clothing or scrape fenders. And when open, the door is completely *inside* the garage where it's protected against wind damage . . . where it can't collect rain, ice or snow. These, plus many other advantages of Crawford design, add up to a life-time of trouble-free service.



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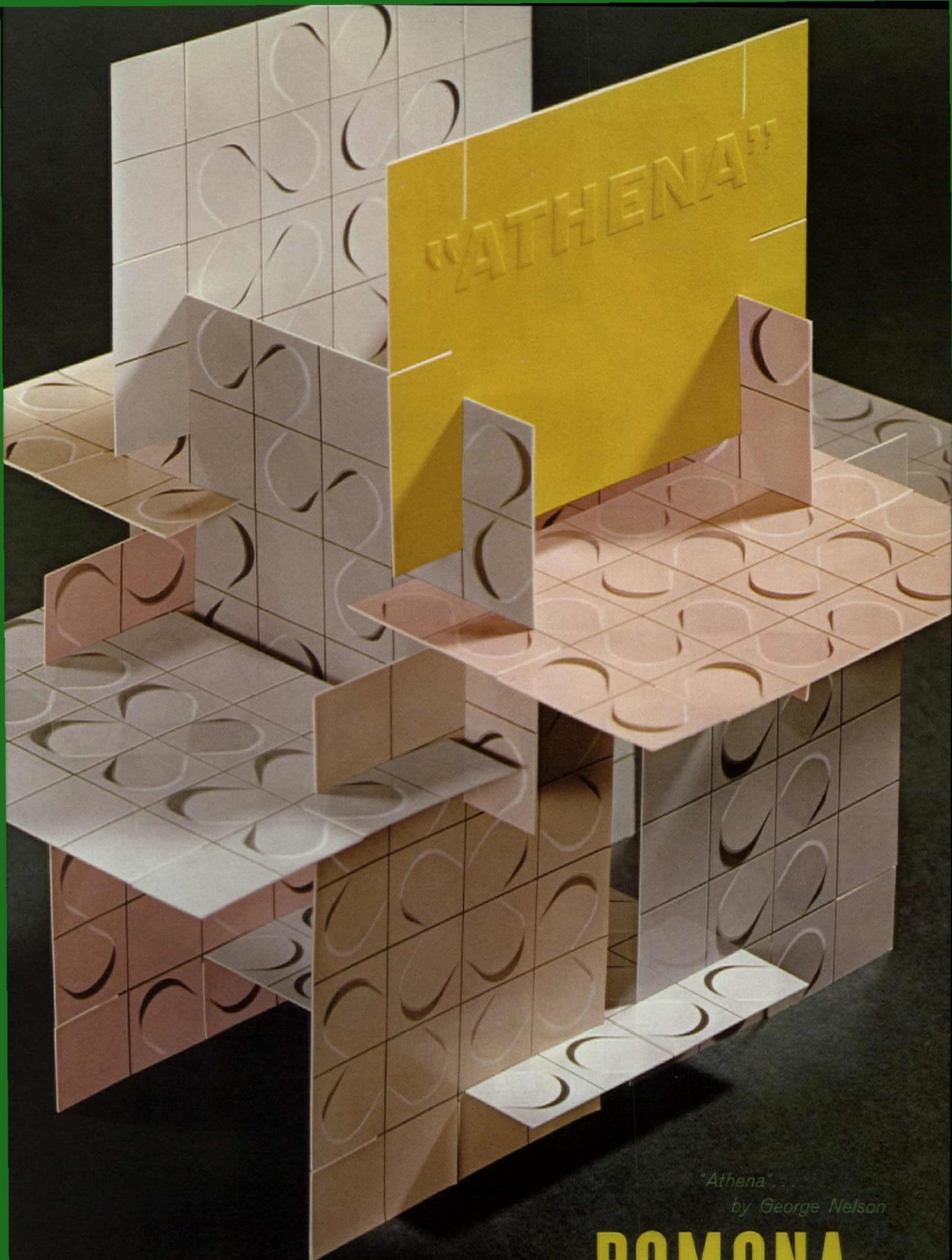
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# RECORD HOUSES<sup>®</sup> OF 1959

This fourth special edition of fine architect-designed houses is the result of our latest country-wide search for the best and most significant residences. We believe it to be representative of the many new directions in house design—in all price brackets, in the different regions of the U.S., in firms of different size and viewpoint. We sincerely hope that it will be a useful book: as a catalyst for those planning a house; as a discussion stimulus for architects and clients; for schools; and as a documentary to keep abreast of developments. It is far from our intent, however, that the collection be regarded as a plan service or copy-book. There is a remarkable upsurge of public interest in good architecture, and we like to feel that our bookstore editions have had some impact in this direction. Our special thanks go to the general press and all others who have given generous help in showing the houses or discussing them.

The book is divided into three major parts: twenty houses, with a special photographic and text treatment of the first to explore its implications for a way of life; a series of articles by specialists on technical and decorative developments; and the latest products and booklets for house design.





## A SYNTHESIS FOR GOOD LIVING

BY RONALD GOURLEY, A.I.A.

The advance beyond active revolution in architectural design asks much—continuity of discipline, expansion on a principled basis, ability to combine and compose. Thus in days characterised by rampant confusion and fashion one rarely finds an architectural work which is at once comprehensive and decisive as this house. Such an observation certainly does not indict the profession as a delinquent group. On the other hand, it does suggest there are other creative directions than a subscription to an undisciplined search for novel form and façade.

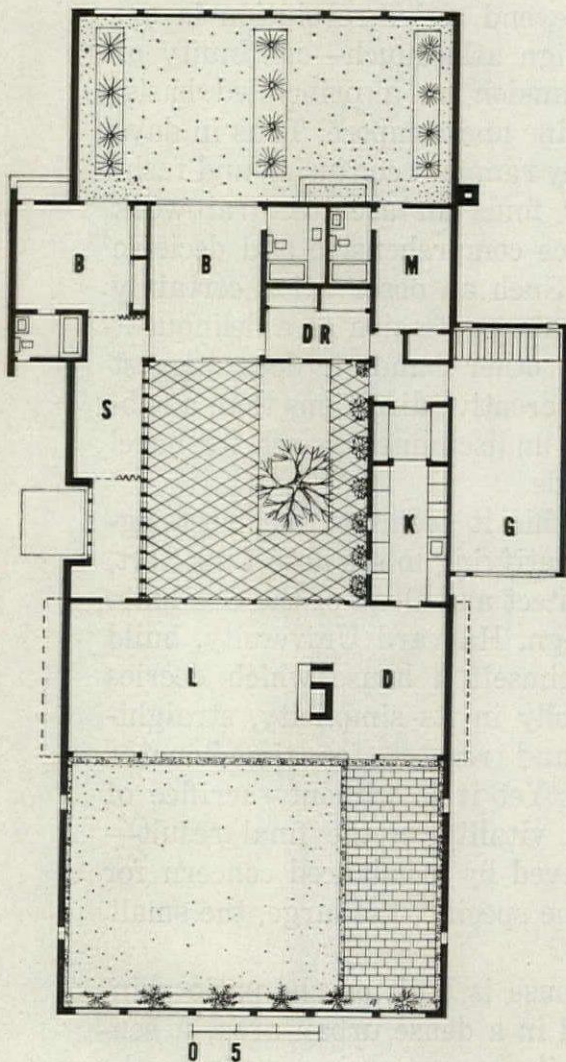
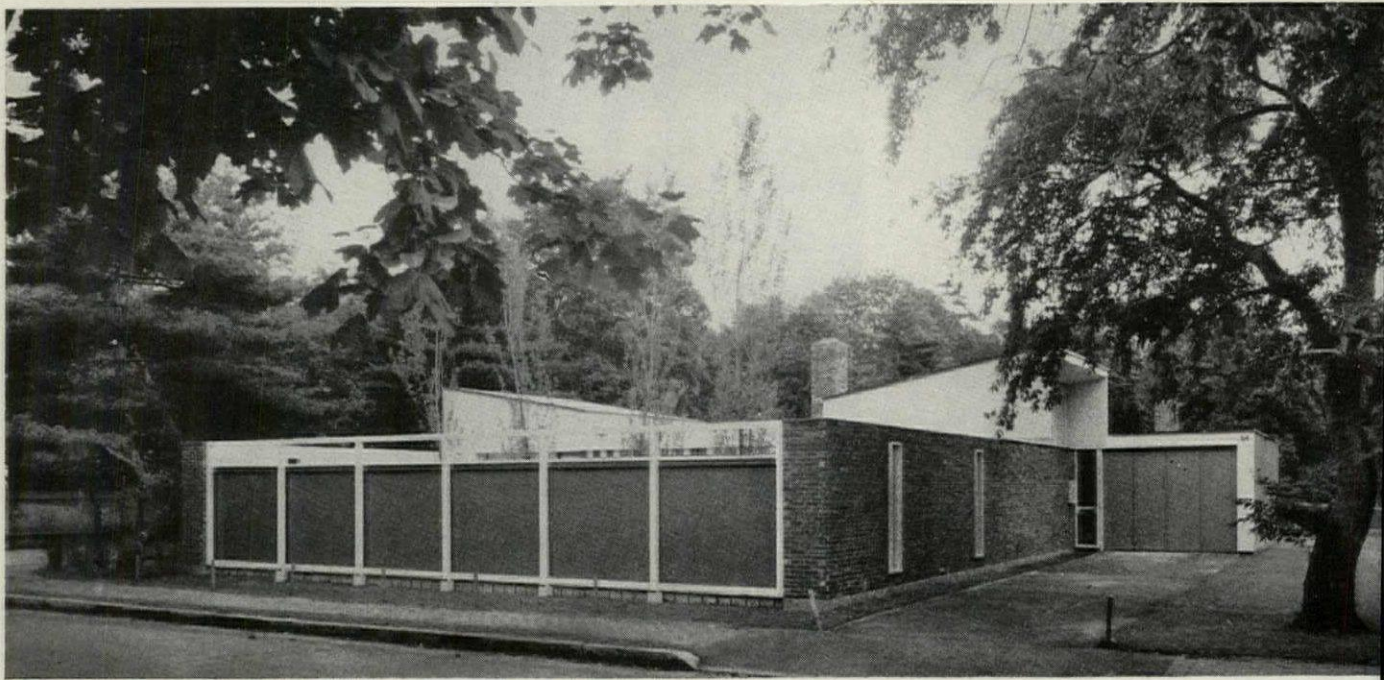
In view of this it seems to me most significant and gratifying to see José Luis Sert, a leading architect and Dean of the Graduate School of Design, Harvard University, build recently for himself a house which decries fashion and folly in its simplicity, straightforwardness and respect for time-honored fundamentals. Yet it is without sacrifice of freshness and vitality in the final result—qualities achieved by a balanced concern for the general, the specific, the large, the small, the whole.

The Sert house is built on the patio principle. Situated in a dense urban area, it sensibly extends its encompassing walls to the boundary lines, and puts all its precious

### JOSE LUIS SERT, ARCHITECT

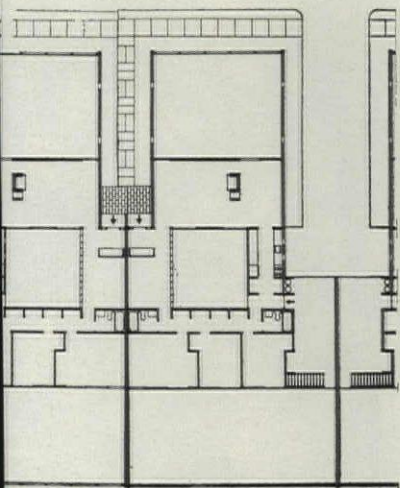
*Residence for Mr. and Mrs. José Luis Sert  
Cambridge, Massachusetts  
Stanley I. Phalen, Contractor  
Hideo Sasaki, Landscape Architect*

FAMILY PHOTOGRAPHS BY  
ELLIOT ERWITT-MAGNUM  
ARCHITECTURAL PHOTOGRAPHS  
BY LOUIS REENS

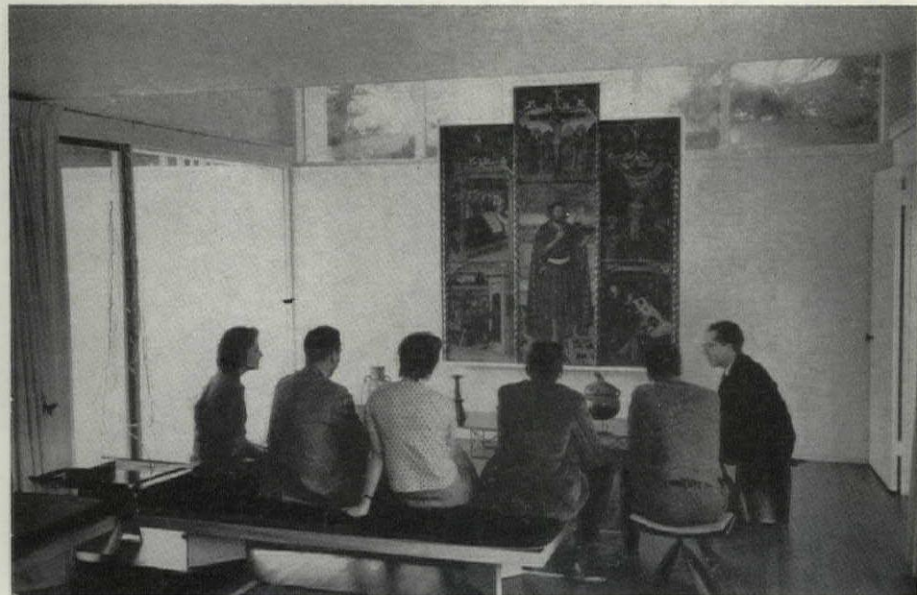
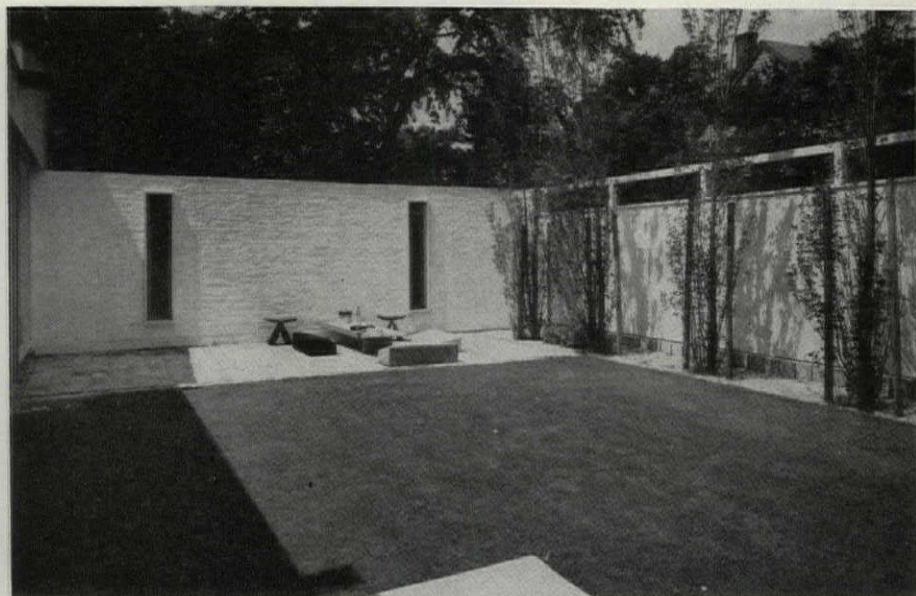


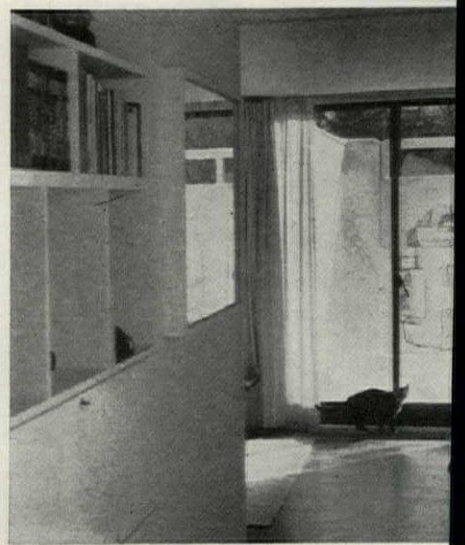
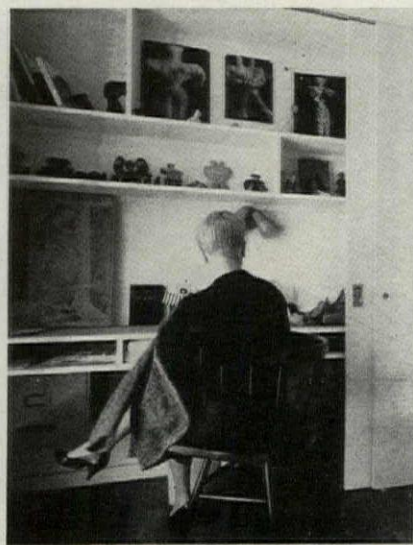
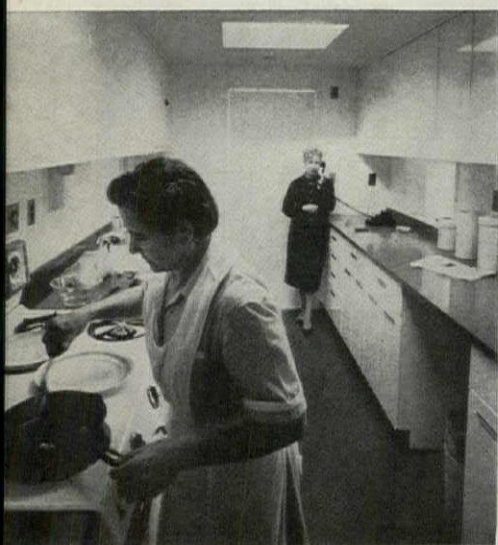
ground surface to use, rather than give up some to a no-man's land between itself and an adjacent house; thereby it also controls its own views. As a type it combines logically in a series to create a new streetscape composed solely of patio enclosing walls, fences, hedges. It allows for a simple, unpretentious life pattern (in spite of society's demands), both in taste and manner. At the same time this system has the inherent advantage of much greater potential for individual owner expression in terms of decoration and façade-style without danger of violent clash between adjacent houses. Swedish Cape Ranches can exist next door to Gas Pipe Moderns without clash, since the street façade conceals all the "wonders" behind.

The architect-owner of the handsome house shown on these pages had for many years been a proponent of the "patio house" as a solution to the problem of the first urban functional dwelling. His familiar large scale planning studies for several South American cities propose this house type as a primary dwelling unit of the neighborhood. A neighborhood based on this proposal would consist of houses tightly clustered, each house having access through a patio on one side to a common green network of lineal parks linking a series of patio



THE SERT HOUSE: A PROTOTYPE THAT COMBINES FOR PRIVACY





## THE SERT HOUSE: ART ENHANCES ALL DAILY ACTIVITIES

quares. On the opposite side, access would be gained to an entrance patio from an off-street parking area. Streets formed by this arrangement with combinations of patio-enclosing walls, fences and hedgerows might conceivably have some of the qualities of a country scene. Our existing urban street pattern provides an unsavory picture in comparison.

It is inevitable that an unequivocal belief, such as J. L. Sert's, in the logic of both the "patio house" and its pattern of development, given due opportunity, would produce a prototype solution. This recently completed house is precisely that.

Situated on a quiet residential street in Cambridge, it is constructed in ordinary New England fashion, a mixture of brick and wood shingle walls and a wood joist roof. It does not assert itself structurally, does not attempt to use a long span system in a short span situation. Neither does it resemble its neighbors in exterior form, yet blends into the local scene through its restraint and use of familiar native materials.

Its rather unusual floor plan frankly recognizes the way of life of its inhabitants; this includes frequent large groups in the house—sessions with students and faculty, discussion groups, visiting dignitaries, university parties. Doors and folding partitions enable the separation of areas to create privacy and intimacy, without destroying an essential feeling of openness. Elimination of wasteful and unpleasant corridors is made possible by broadening potential circulation spaces into usable areas, i.e., the study (with an excellent architectural and art library) and the dressing room; even the space between the kitchen and the maid's room is a high-content storage area and the garage is used as a way to a basement workroom (where the paving blocks for the central courtyard were handcast





## THE SERT HOUSE: SPACIOUS HOSPITALITY FOR ALL GATHERINGS



by several enterprising Harvard College students). Primarily an adult house, its yards and encircling character, at the same time, intrigue children.

The landscaped patios provide eventful variety, differing from each other in size, shape and function. On the west through the living room the largest, paved with cement blocks for outdoor dining, is (otherwise) grassed. The central patio, twenty-four feet square, paved in tiles of gravel set in cement (with the exception of a planting area containing a flowering tree), serves as an extension of the entrance space and living room. On the east past the study and through a multi-use room, the third, an unpaved cultivated space for sunbathing and gardening, is enclosed by a Costantino Nivola decorated fence. Generous glass areas, fixed and sliding, open the roofed spaces to those unroofed, framing permanent pictures of sky, treetop, daily and seasonal change; their careful positioning (and proportioning) allows an uninterrupted view from front fence to rear fence, a total distance of little more than one hundred feet enabling an enclosure of modest dimension to give the illusion of considerably greater size.

The furnishings are very few—primarily





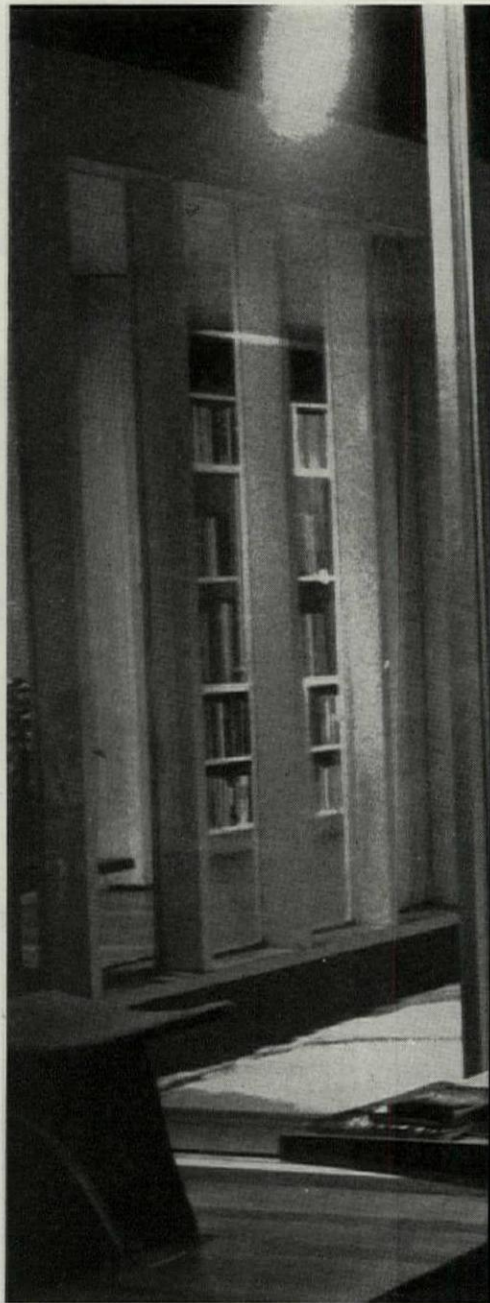
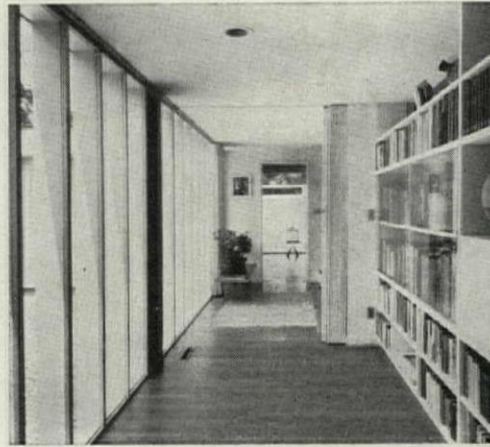
## THE SERT HOUSE: A PLACE OF CALM AND REFLECTION

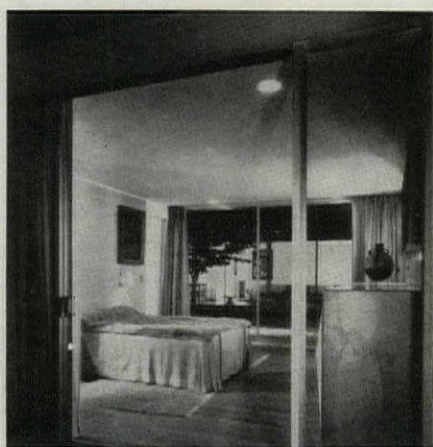
custom built pieces. Low horizontal living room seats with brightly colored upholstery—birch edged panels supported on x-legs; a dining table composed of a slab of glossy black Italian marble carried on steel legs (placed to eliminate conflict with human legs)—its chairs the \$9.00 unfinished department store variety painted black. In its simplicity the furniture registers a firm protest to the underthought and overformed nature of much of that currently fashionable.

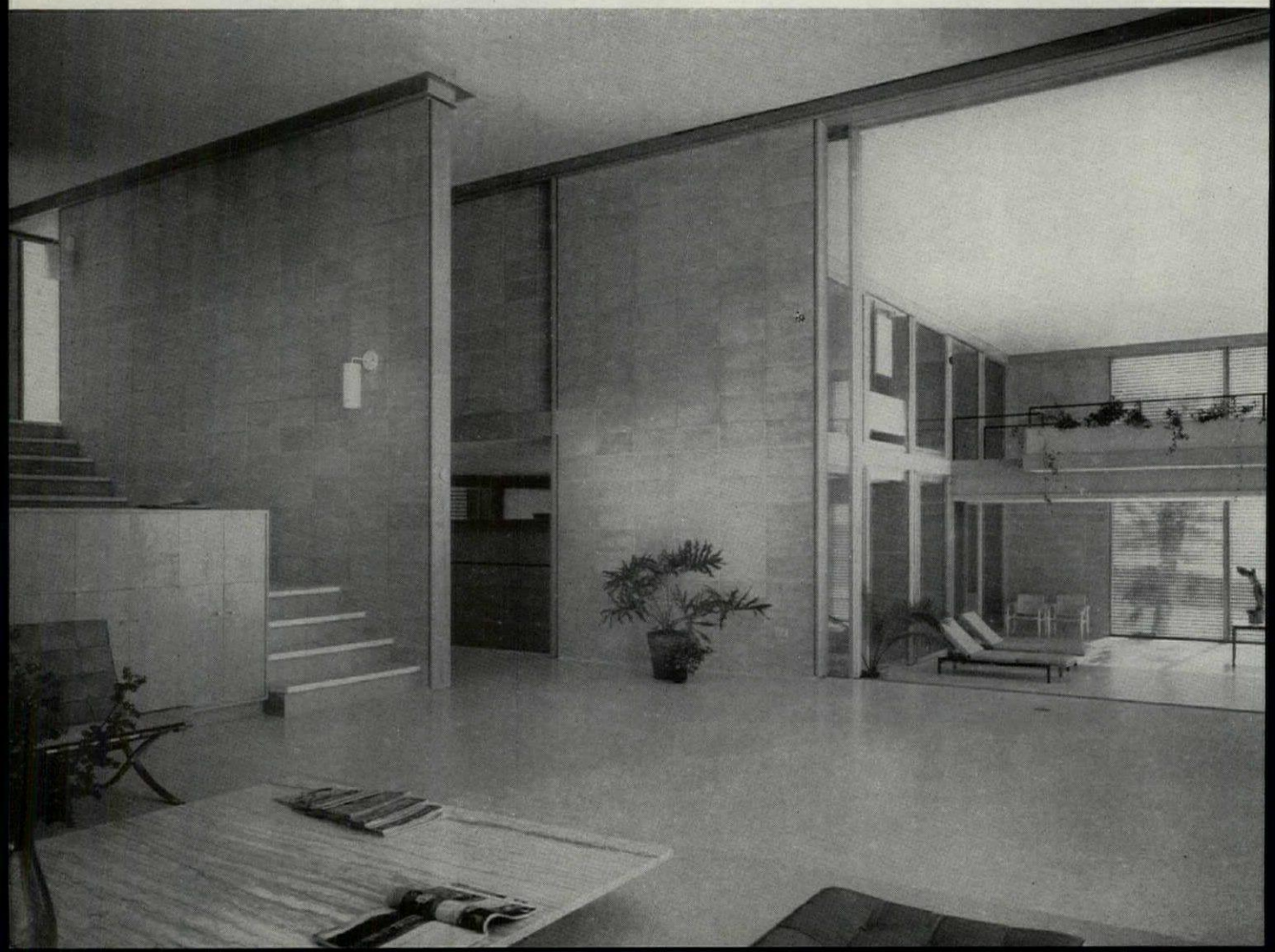
Fine paintings, including a 15th century Spanish altarpiece, works of Miro, Leger, Picasso, are hung, their positions determined in relationship to the architectural surfaces—the lines of the clerestory window stools deliberately broken by the vertical projection of paintings; at night a colorful Miro reflected on the plate glass seems to be suspended in the central patio. Objets d'art are plentiful, representing a multitude of cultures; a collection of gold jewelry (Peruvian, Colombian) meets with the approving eye of a well-designed cat. Against a white background, bright colors appear frequently, especially red and blue. When applied to ventilating panels, window jambs, fireplace flue, and occurring in the fabrics, they recall the pigments found in the paintings and establish an overall color balance admittedly high in pitch in accordance with Mediterranean tradition.

Quickly reviewed in this way, the characteristic elements of the house, general and particular are found to be simple, logical, unpretentious. The application to each of a uniformly severe critical standard of taste results in a unique and highly personalized composition. The significance, in my opinion, lies in this unified wholeness achieved without superficial theatrics and in the harmonious combination of architecture, landscape and fine art.

I personally find it to be a warm, alive, refreshing house—one especially pertinent at a time of doubt and indecision.









PAUL RUDOLPH, ARCHITECT

*Residence for Mr. and Mrs. F. A. Deering  
Casey Key, Florida  
Russello and Barker, Engineers  
Jack Twitchell, Contractor*

## FIVE LEVELS GIVE A DRAMATIC SEQUENCE OF SPACES

The remarkable handling of space in this house provides areas of a variety and size not often seen these days—building costs being what they are. There are great “halls” for lounging and entertaining, cosier retreats for reading or study. A skillful interweaving of levels adds vitality and interest to these spaces, and helps avoid some of the possible drawbacks of open planning.

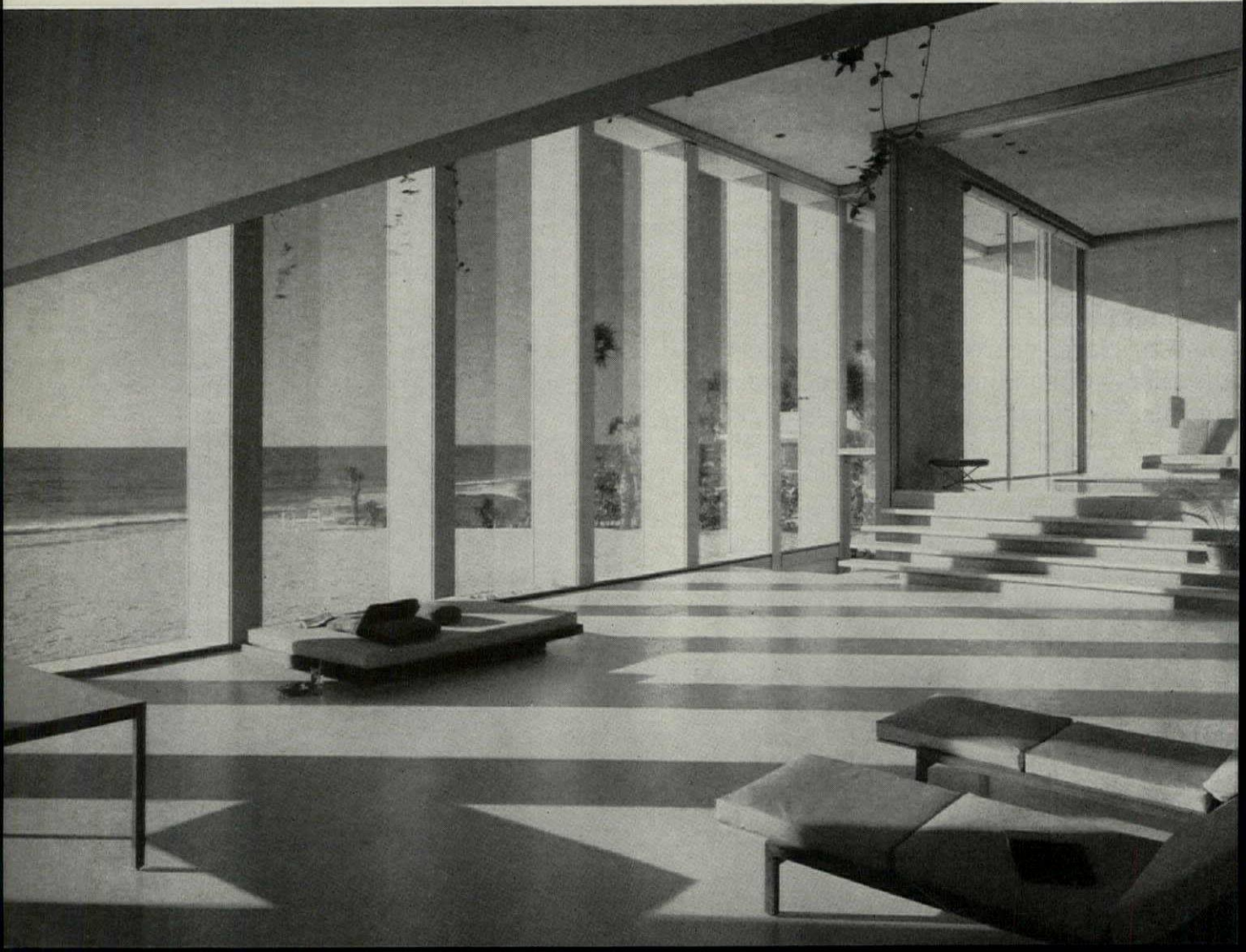
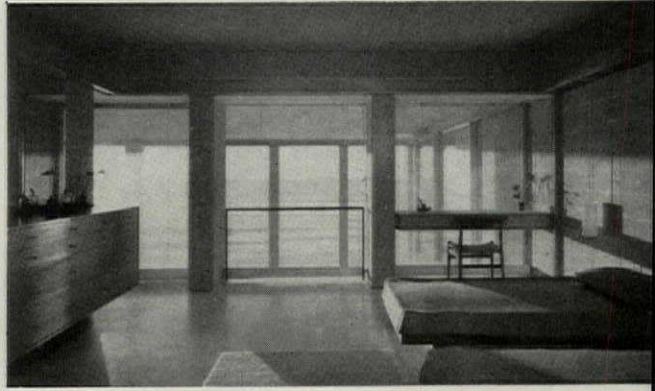
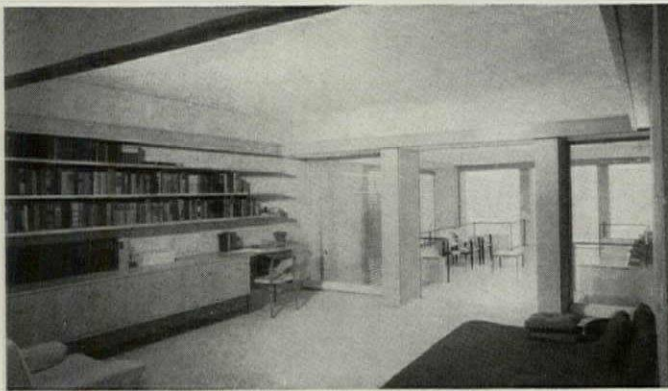
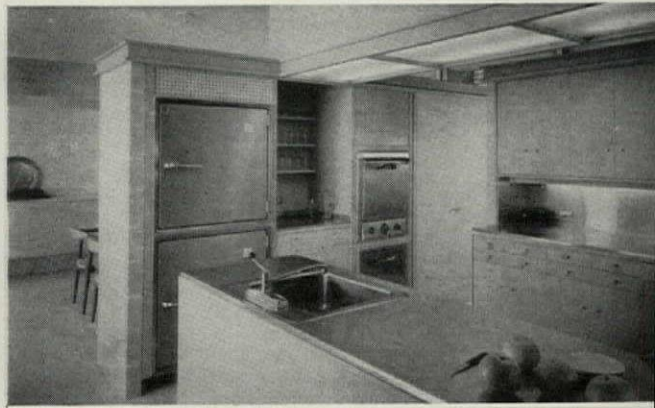
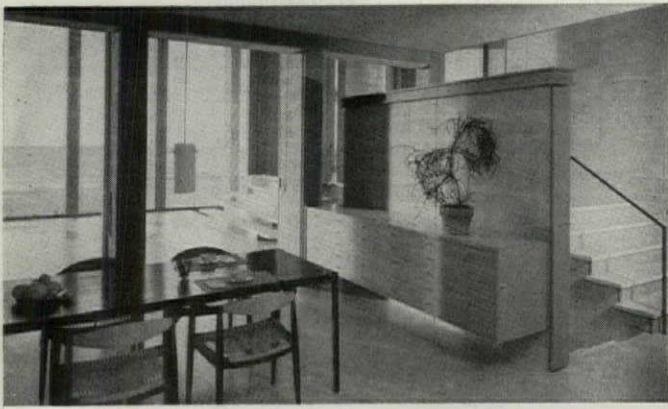
The impressive size of the rooms was made possible to a large degree by studied simplicity and economy of building shape, structure and materials. The house is basically a rectangular cage of inexpensive concrete block and glass over screening. Most rooms are enclosed with glass, except for the largest living area: this left open to form a sort of incorporated “Florida Room,” which is usable most of the year. Requirements for the heating system were thus reduced by a great degree. A second living area connects to the open one by a few steps and tall sliding glass doors (photo bottom left).

Sun control and privacy are gained by use of a wood lattice across the front and sides of the house, plus slat blinds on rollers inside.



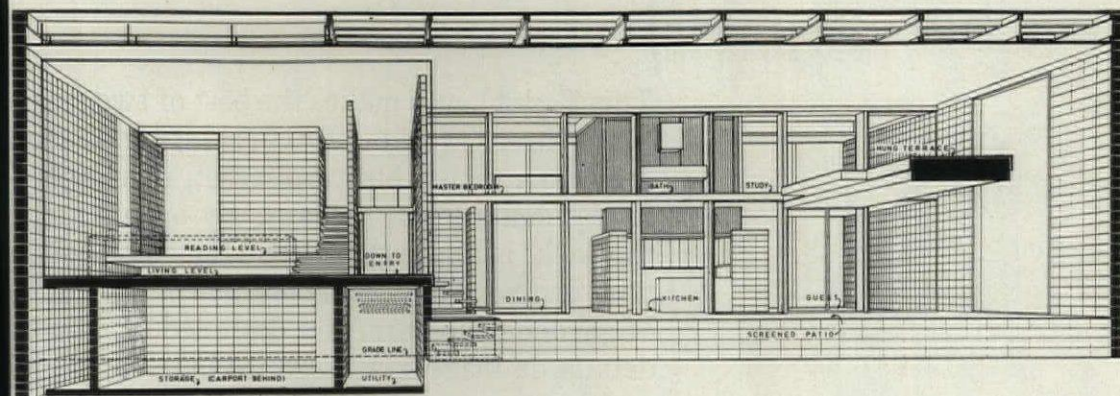
PHOTOS: © EZRA STOLLER

PHOTOS: © EZRA STOLLER



## A SCREENED PATIO IS THE HUB OF THE HOUSE

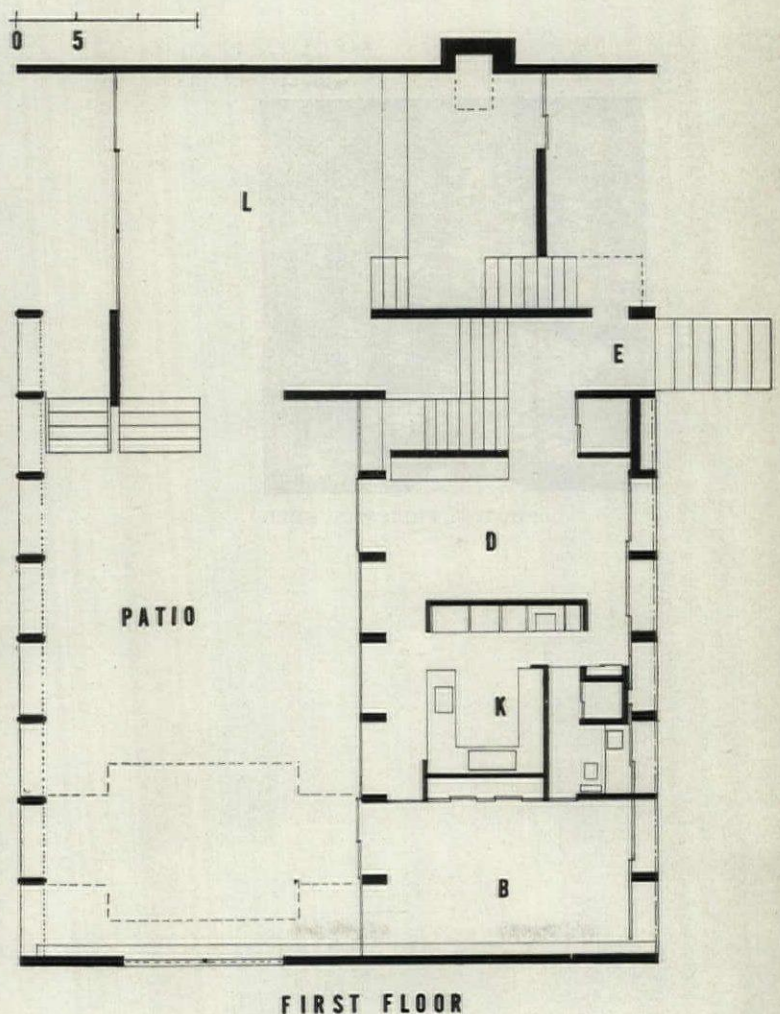
THE PLAN of the Deering house is rectangular, with about a third of the area devoted to the two-story screened patio (photo below left). At the same level are the dining room and kitchen (photos top left), the entrance hall, and a guest bedroom and bath. Sliding, aluminum-framed glass doors separate these rooms from the patio. A few steps above this level is the enclosed living area, which is in turn overlooked by a balcony-like reading level. The reading level has a fireplace and a counter-height railing formed by cabinets.



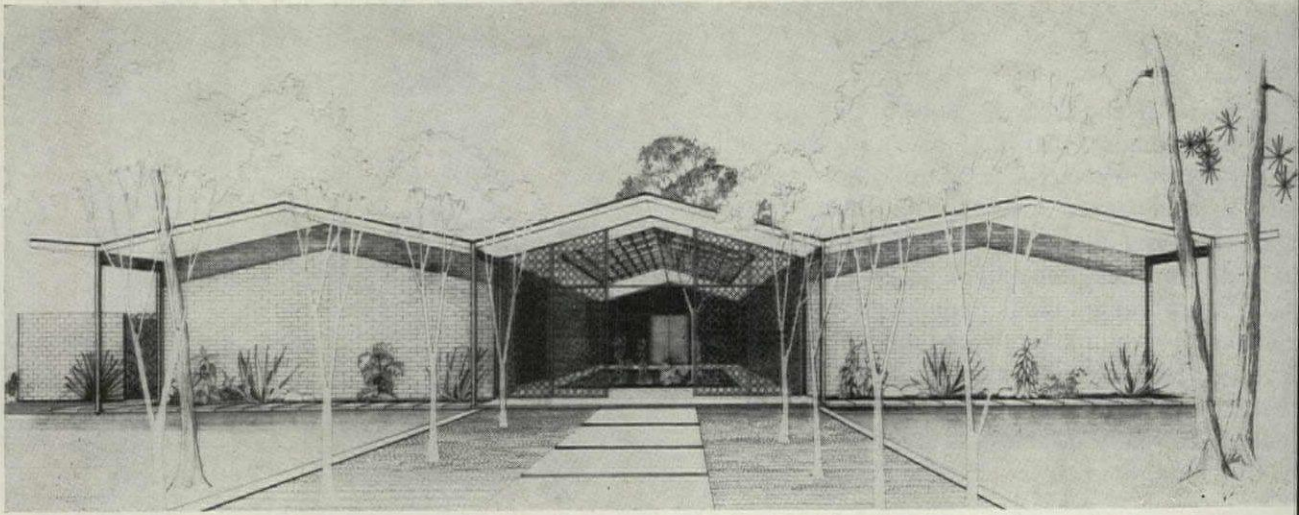
THE TOP LEVEL of the house (not shown on plan) is reached via a bridge over the entry, and contains the master bedroom, bath and study. A hung terrace or "eagle's nest" extends from the study out over one end of the patio (see center photos at left, and sketch above). The fifth, and lowest, level of the house is beneath the living area, and a few feet below grade. It contains the carport, storage and utility areas, and can be reached by a stair from the entry hall.

THE STRUCTURE of concrete blocks is finished with silicone and exposed as finished wall inside and out. The edges of the block walls and of the roof are covered with wood planks. Built-up roofing is used. Floors throughout are terrazzo, ceilings are acoustical plaster. The wood trim is cypress.

THE MECHANICAL EQUIPMENT for the kitchen and baths is grouped closely to minimize piping. The kitchen has built-in equipment, stainless steel counters, a luminous ceiling. The counters are arranged to facilitate cafeteria-style service if desired. Obscured glass is used for the windows in all baths.



FIRST FLOOR

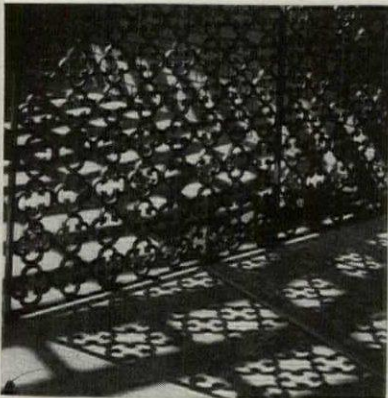


This Texas house makes the best of two, or perhaps three, worlds. By presenting a closed front to a rather built-up street, it secures for its residents great privacy. By opening up at the back, it allows a view of the small wilderness behind. And by incorporating a number of gardens and carefully designed ornament details, it insures a large measure of delight within.

The sense of privacy is achieved without any sense of claustrophobia: all rooms look out on "controlled gardens"—even the rear view is controlled in the sense that it will not be changed by future building. The iron grille, while protecting the interior of the house from the casual gaze of passers-by, at the same time extends a dramatic welcome to visitors who find behind it a small garden. For further privacy, especially at night, shoji screens partitioning the living room and entrance hall can be slid into place.

In a locality where abundant foliage is relatively rare, the view of the "bayou" back of the house could not be wasted. A screened area—not so much a porch as a gallery—runs the full length of the house, and is accessible, and usable, from all main rooms. Nearly a quarter of the house's 2640 sq ft (not including 700 sq ft of garage and courts) is given to this area.

The architectural ornamentation reflects a growing interest in enrichment, but nothing was left to the chance of dramatic effect blinding the viewer to detail. The structure—much of which is exposed—and the cabinetwork are meticulously finished.



PHOTOS: FRED WINCHELL

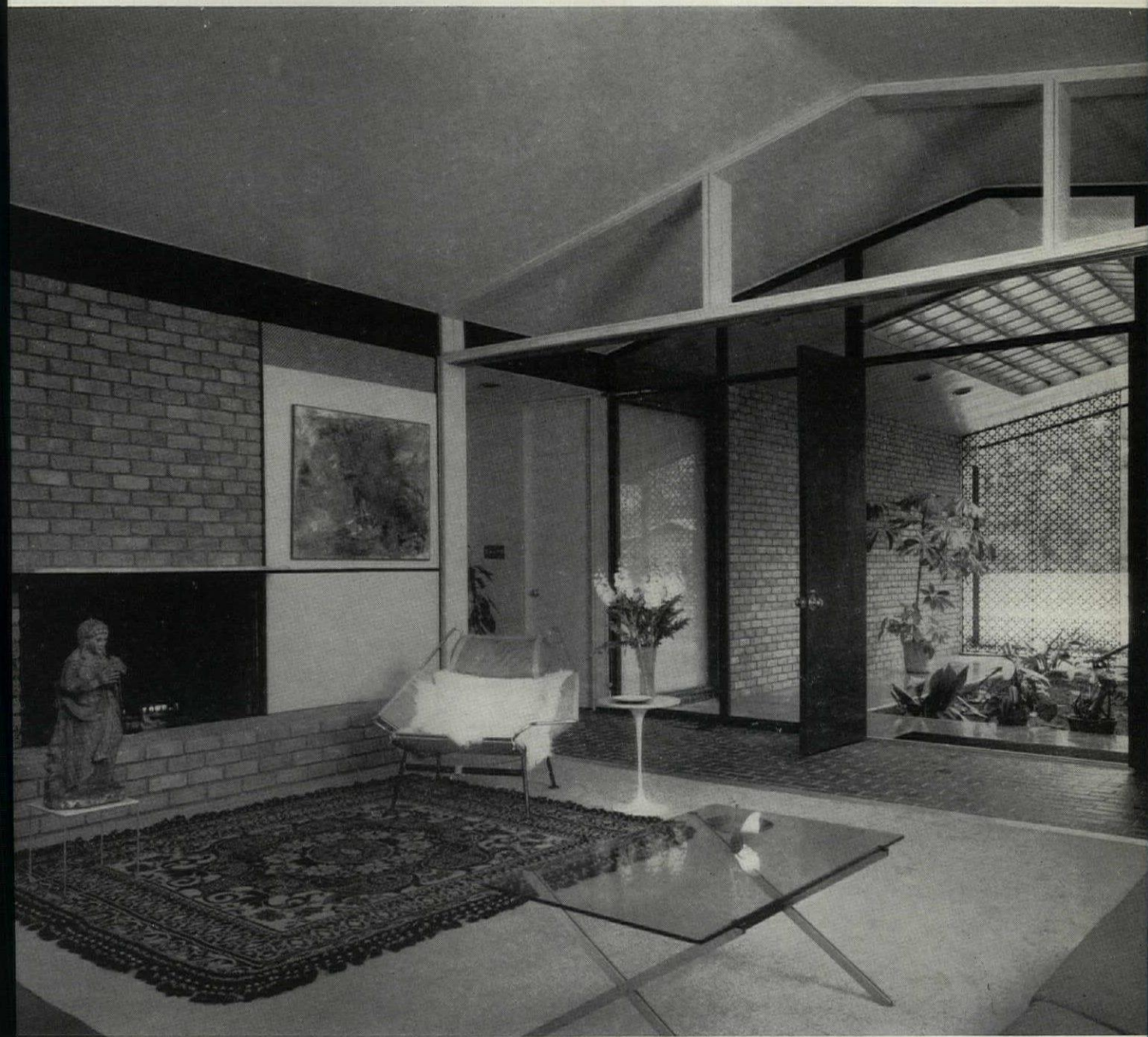


BOLTON AND BARNSTONE, ARCHITECTS

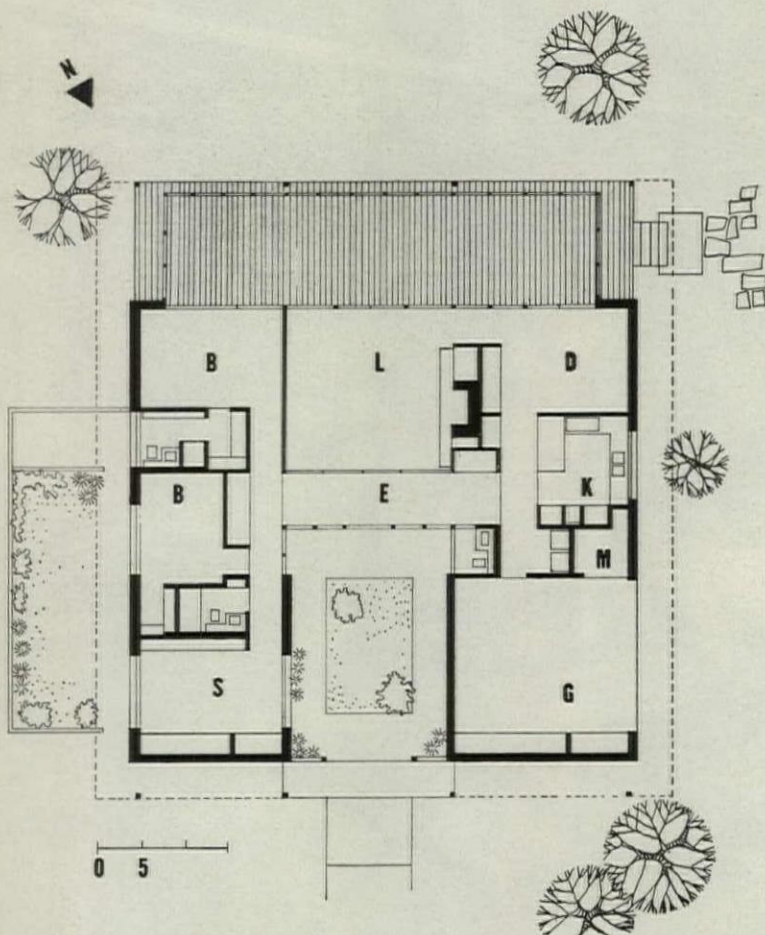
*Residence for Mrs. David Lindsay  
Houston, Texas*

*A. T. Knies Jr., Structural Engineer  
Southwest American Construction Co., Building Contractor*

## GARDENS AFFORD PRIVATE VIEWS

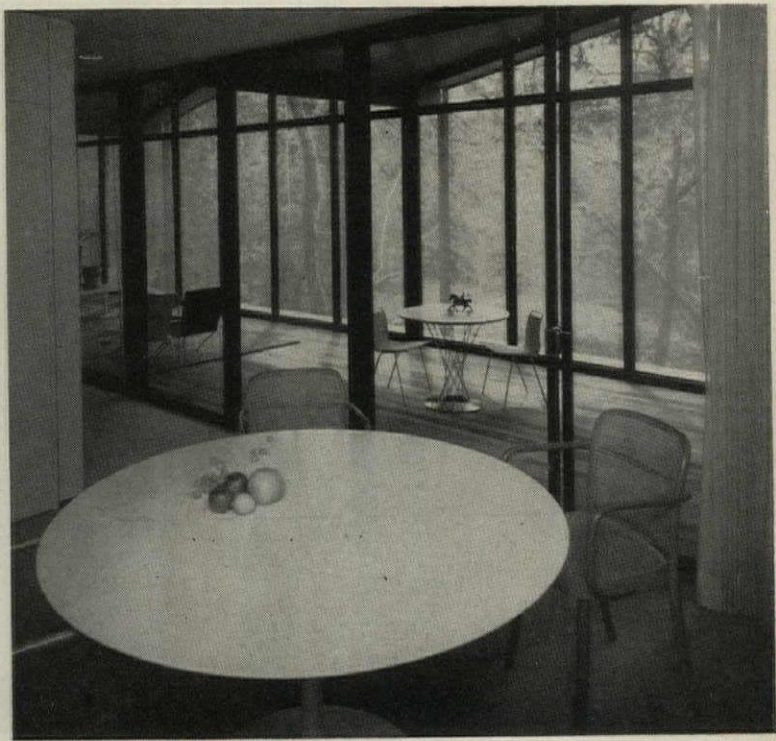
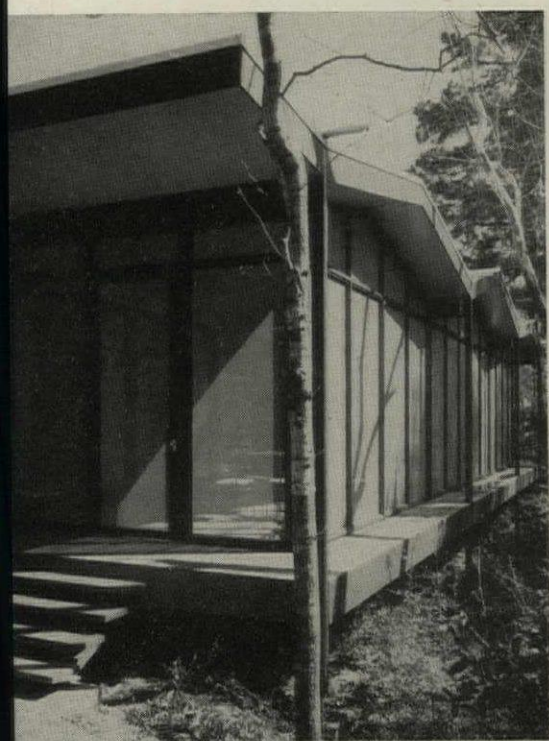
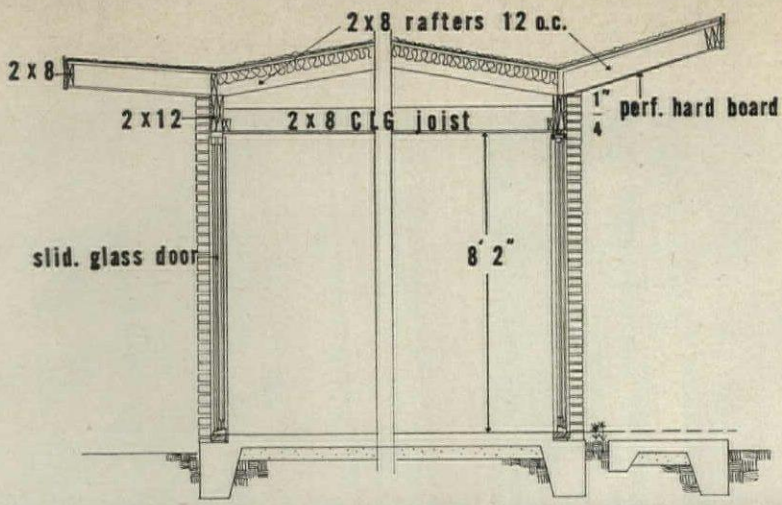


## ATTENTION TO THE FINE POINTS PRODUCES RICH ORNAMENTATION

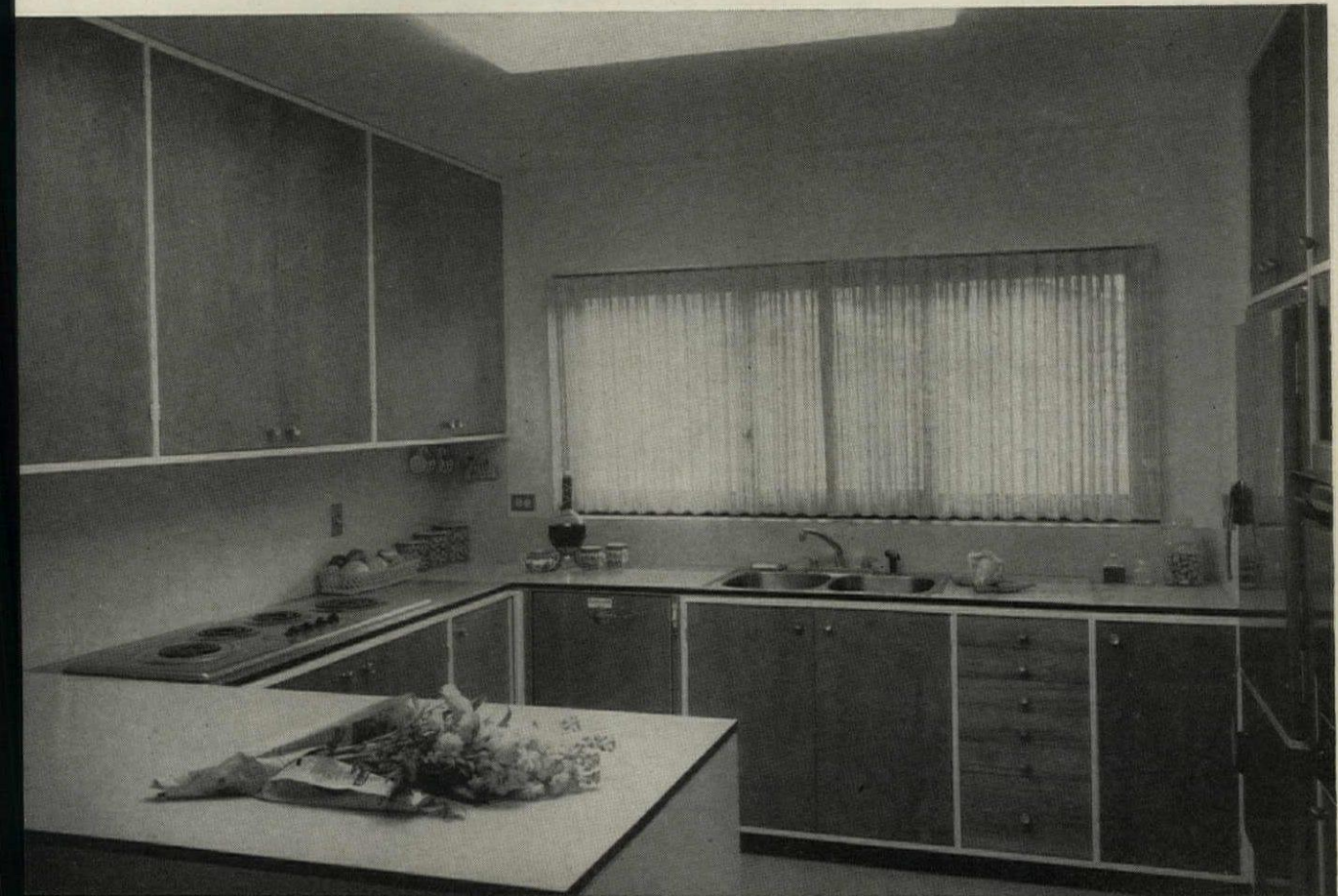


THE PLAN of the Lindsay house forms a rectangle with one side a service wing, the bottom a living space, the other side sleeping and study area. All rooms have a view out but no view in: the master bed-sitting room, living and dining rooms look through the screened gallery; the second bedroom and study overlook a small walled garden, and the study also looks out on the entrance court; the kitchen, too, has its walled garden (not shown on plan). As the owner shares the house with her grown son, it was not considered necessary to completely isolate sleeping rooms from the living areas; the study, however, is well away from daytime activities. For entertaining large parties, shoji screens and the sliding glass doors all along the gallery can be thrown open, creating very generous space—from the front of the entrance court to the back of the gallery—for large groups of guests. For overnight guests, the study serves as an extra bedroom.

FINISH AND MATERIALS show evidence of considerable attention to detail. In the living room, the fireplace wall, for example, is an ordered composition of hardboard, pair beam, fine brickwork and carefully chosen and installed heating registers. The exposed structural members, being of different colors (white paint and near-black stain), appear as a series of receding planes to increase the apparent depth of the house. Door frames extend to the ceiling; the gap between door and the top of the frame is filled by a flush panel. Since many of the rooms get little daylight from the side, daytime illumination is provided through the large skylight in the entrance court which gives light to the living room and the study, and other skylights in the screened area, kitchen and bathroom. Flooring is vinyl tile in kitchen and bathroom otherwise carpeted except in the entrance where it is waxed brick. Cost of the house was \$15.23 per sq ft.



PHOTOS: FRED WINCHELL.







VICTOR A. LUNDY, ARCHITECT

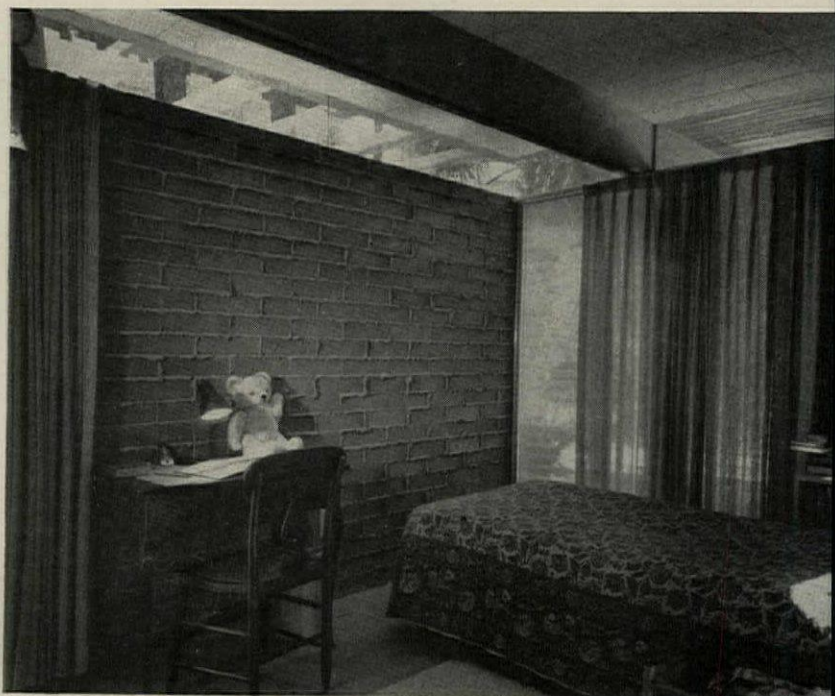
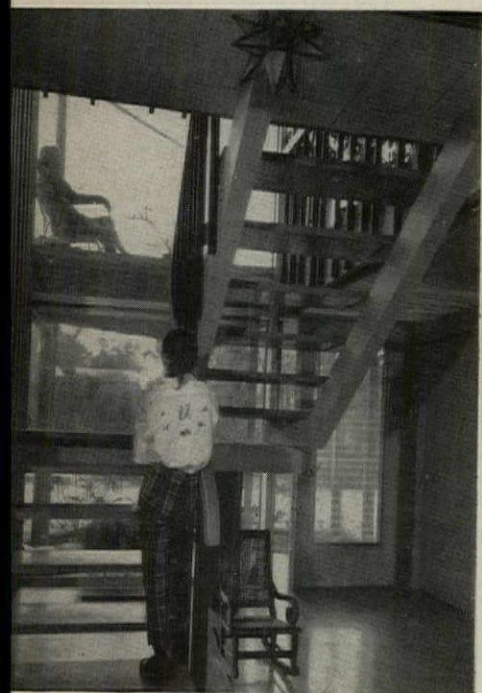
*Residence for Mr. and Mrs. Joseph D. Dudley  
Sarasota, Florida  
C. E. Mikronis, Contractor*

## TEXTURE AND WARMTH ON A BUDGET



The trend toward more pattern and visual interest in house design—and to more individual expression—can be seen in all price brackets. This \$30,000 house gains some quite intriguing effects of this kind by taking full advantage of textures, shapes and shadow patterns in the basic structural and finishing materials. The result is a satisfying one of casual warmth, changing highlights—and minimum cost for added “decoration.”

Provision for ample space was a big problem, as is usual on a strict budget. A two-story, rectangular, basementless structure was evolved to house all the needed rooms, then extended by a screened garden area. The structure is a wooden “space frame” of built-up columns and beams, which stands clearly away from the enclosing curtain walls. Columns, beams, second floor and roof were erected before any walls. Workmen were sheltered for the remaining work; and the lighter built-up members added to speed construction. There are 2063 sq ft of enclosed space, 3613 sq ft total (counting carport, balcony, porch, etc., at  $\frac{1}{2}$ ). Thus cost was about \$8.30 per sq ft.



# A TWO-STORY PROW ADDS SCREENED-IN LIVING SPACE TO BOTH LEVELS

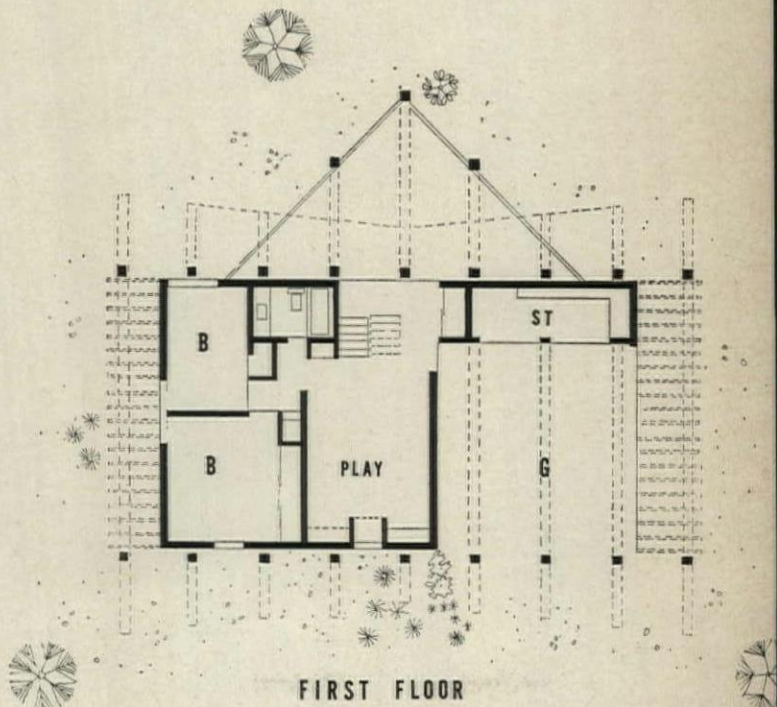
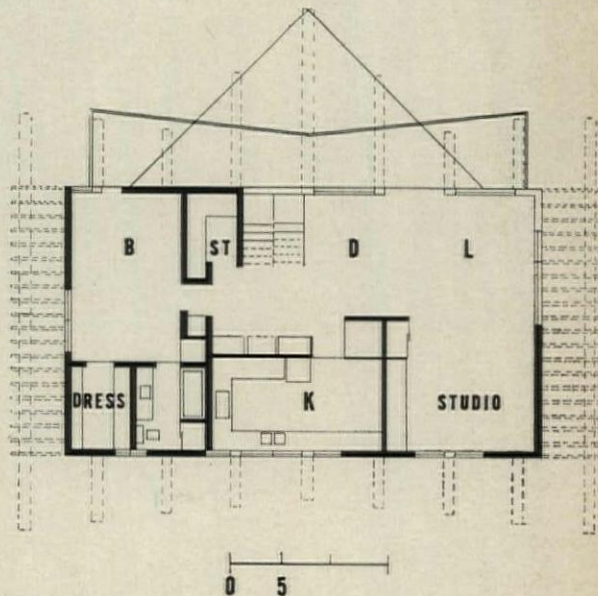
THE PLAN of the Dudley House takes advantage of the two-level plan to gain a view of the Gulf from the upstairs living areas. (The site is separated from the water by a road and a strip of lots.) The scheme also separates adult and children's areas on the two levels. A triangular screened "prow" shelters downstairs play space, and the upstairs balcony.

THE STRUCTURE is of regularly spaced (7 ft O.C.) Douglas Fir posts and beams. The two-story posts are made of two 2-by-4's with a 2-by-6 running through. Beams are two 2-by-12's with a 2-by-10 between, and strengthened by hidden steel plates where needed. Beam ends are tapered.

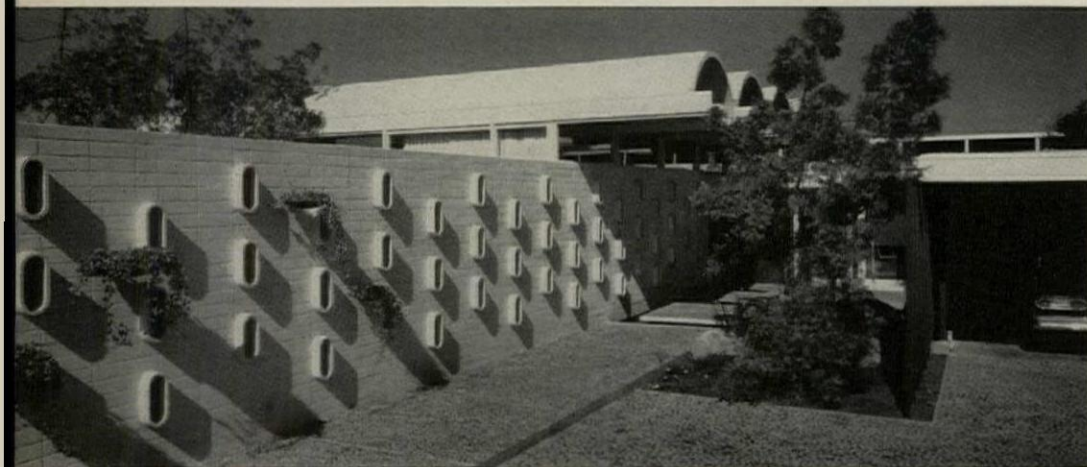
EXTERIOR WALLS on the lower level are of concrete brick to give a sense of "base" and solidity plus a feeling of privacy. Joints are emphasized for texture. Upper walls are random-width cypress boards, with 2-by-2 cypress battens for shadow relief.

INTERIOR FINISHES continue the stress on texture: the concrete brick is exposed downstairs, random-width cypress paneling is used upstairs. The roof is of 2-by-5 tongue and groove planks, and the second floor of 3-by-5 double T.&G. white fir, both exposed for ceilings (baths and playroom also have acoustic tile).

Floors in the living areas are surfaced with straw matting; vinyl-asbestos tile over plywood is in kitchen, baths and playroom. Cabinets and doors are of an African-hardwood plywood. Heating is oil-fired forced hot air. Baths also have electric wall heaters.



# EXUBERANT SHAPES AND DETAILS HIGHLIGHT A NEW DESIGN DIRECTION



PHOTOS: JULIUS SHULMAN

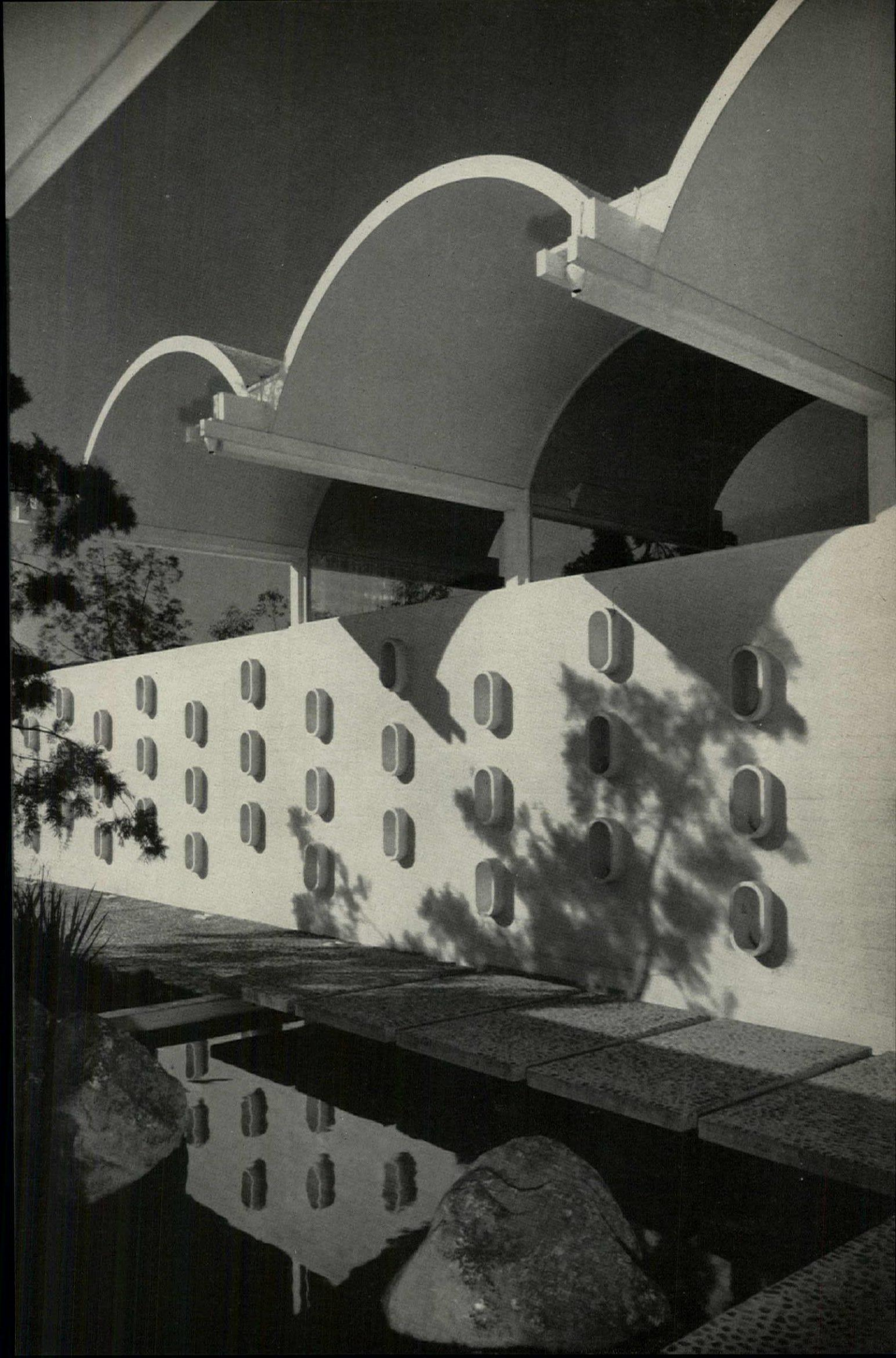
A bold synthesis of many of the recent trends in houses ("plastic" rooflines, the oriental influence, surface pattern, courts, and a tendency toward bigger size) is strikingly evident in this design. It is an amazingly well equipped house, finished with an eye for simplified upkeep, and offers a wide choice of living spaces—indoors and out.

The concept of the house seems to depend more on a series of façades and vistas for effect than on a single unified impact. In fact, it is difficult to see the house completely from any one point. Such variety, at the least, perks up a lethargic eye. Progress through the main entrance to the house is a good example of the changing spaces: from the broad, open motor court, the house is screened from view except for the series of plywood vaults over the play room (above); the walk leads beneath 10-foot overhangs of the vaults, and becomes a pebble surfaced concrete bridge over a quiet, intimate pool (right). The entry itself opens onto a great expanse of interior spaces, with the eye carried outward to views beyond; in the center of this is a small flowering court.

RICHARD L. DORMAN AND ASSOCIATES,  
ARCHITECTS

*Skytop Residence  
Encino, California  
Richard Bradshaw, Engineer  
Robert Coleman, Contractor  
Robert Carter, Landscape Architect  
C. Tony Periera, Interior Decorator*





## INTERIORS ARE BRIGHT, BIG, AND EASY TO MAINTAIN

ACTIVITY SPACES for a large family, live-in help, and guests are amply provided. And in addition to the main house, a two-room guest house and covered play area adjoin the swimming pool. Inside spaces all interconnect with each other, and with courts and terraces to give maximum room for family group activities and entertaining. The largest area is the family play room (below center); its vaulted roof covers 1100 sq ft including several wide overhangs.

NATURAL LIGHT abounds in all rooms. Each has at least one wall of glass opening to the outside, and clerestories range from living, dining, play, and kitchen areas.

INTERIOR FINISHES are practical. The main part of the house is floored with a gray-orange concrete paving tile. Chestnut paneling is on most of the ceilings—the remaining ceilings are plaster. Interior walls are walnut or painted plaster. All cabinet work is natural wood, designed like furniture, with aluminum legs. (Note photo upper right.)

EQUIPMENT in the kitchen is planned for large scale cooking; most equipment, including dishwasher and refrigerator is double. There is an intercom system, motors for draperies, built-in bar sink and refrigerator, movie screen, barbecue equipment in the dining room. TV and hi-fi are also built-in.





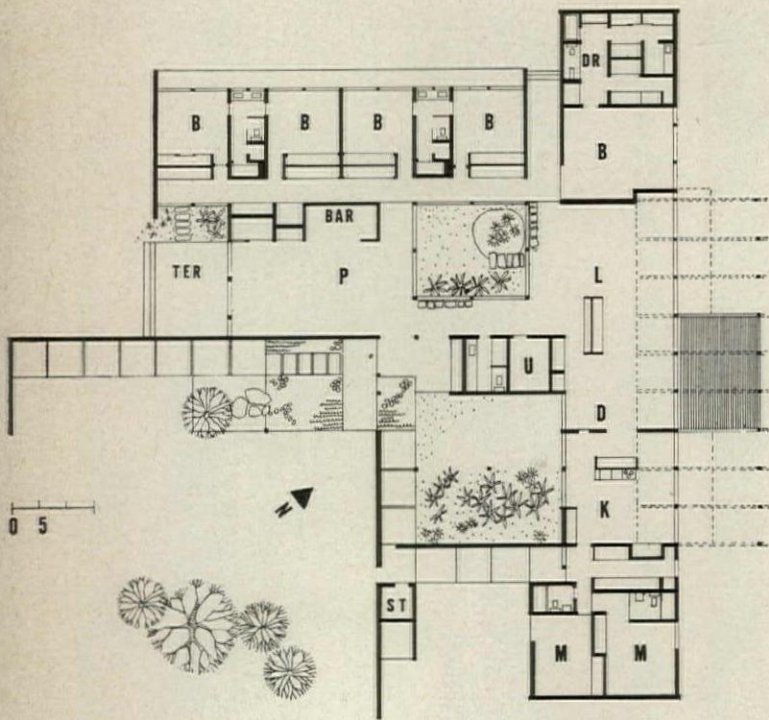
PHOTOS: JULIUS SHULMAN



## A COMPLEX OF GARDENS AND COURTS GIVE WIDE SCOPE FOR OUTDOOR LIFE

THE PLAN revolves around five basic garden or play areas, plus entrance court, and service court. The children's wing has four bedrooms, which overlook the tennis court and swimming pool (right). The master bedroom suite overlooks the main view, as does the living room (bottom left). The playroom has its own terrace.

TOTAL COST of Skytop Residence is \$225,000 for the house, about \$400,000 for the total project. Square foot cost is estimated to be approximately \$25.00.



THE STRUCTURE of the house is Douglas Fir post-and-beam, on a 7-ft module. Floor construction is concrete slab, with the slab cantilevered 18 in. over the footing wall around the house. Exterior walls are surfaced with redwood, plaster, or concrete block. The patterned effect is achieved by inserting terra cotta flue liners into the concrete block walls. Ceilings are plaster, and the roof is surfaced with crushed rock. Bathrooms are finished in plaster, tile and marble.

The heating system uses forced hot air run through the slab, and thermostatically controlled in five zones. The house is also completely air conditioned by a 20-ton unit.

The vaulted roof over the playroom consists of four joined vaults of Douglas Fir plywood, supported on post-and-beam frames. The plywood surfaces form both ceilings and roof. The monitor-like clerestory rimming the living areas is supported on post-and-beam trellis, cantilevered into rooms.



PHOTOS: JULIUS SHULMAN



PHOTOS: © EZRA STOLLER



*Residence for Mr. and Mrs. Bowen Sterling  
Peeksville, New York  
Wiesenfeld, Hayward and Leon, Engineers  
Gramercy Construction Co., Contractors  
Hideo Sasaki, Landscape Architect*

## GREAT ORDER BRINGS GREAT FREEDOM

For all its tranquil air, this little house packs a remarkable number of innovations into its 40-by-40-ft area. The basic scheme of the house is one of rigid order: the novel, geometric structure is designed on a precise 4-ft module, and rests on eight wooden columns—its great strength lies in a frame built on the same principle as the four-handed fireman's carry everyone learns in first aid; spaces between posts and beams are filled with fabricated panels for floors, roofs and walls.

Within this ordered construction, the plan and interiors offer a near-ultimate in flexibility. There are five interior rooms—or areas—and four porches, all of which can be completely opened or shut off from each other by sliding walls. Thus the house offers a rather fantastic number of room combinations, including converting the whole house into an open porch.

One of the more novel features of the house is a central "hearth room" which receives daylight, when closed off, from four skylights, and focuses on an easily-removable fireplace.

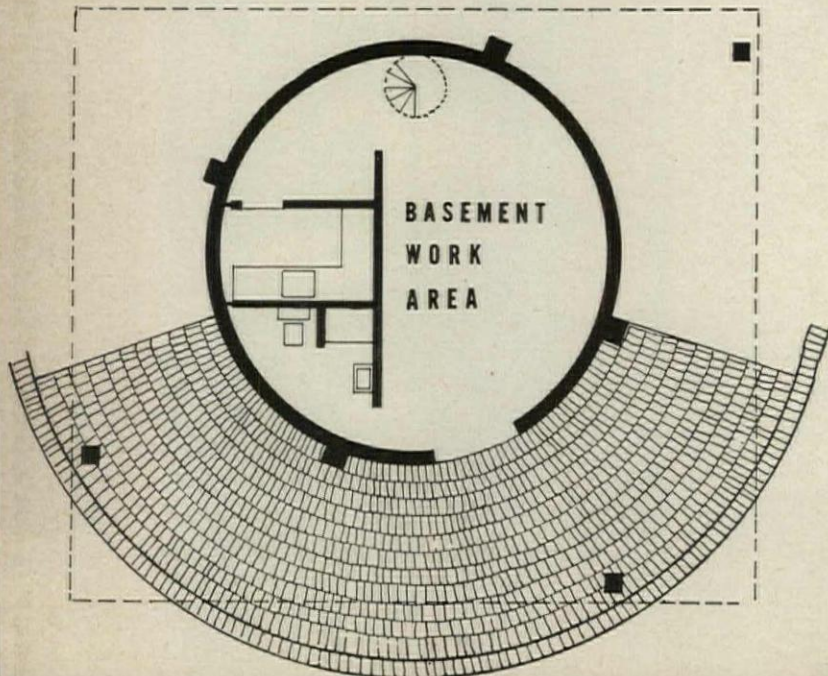
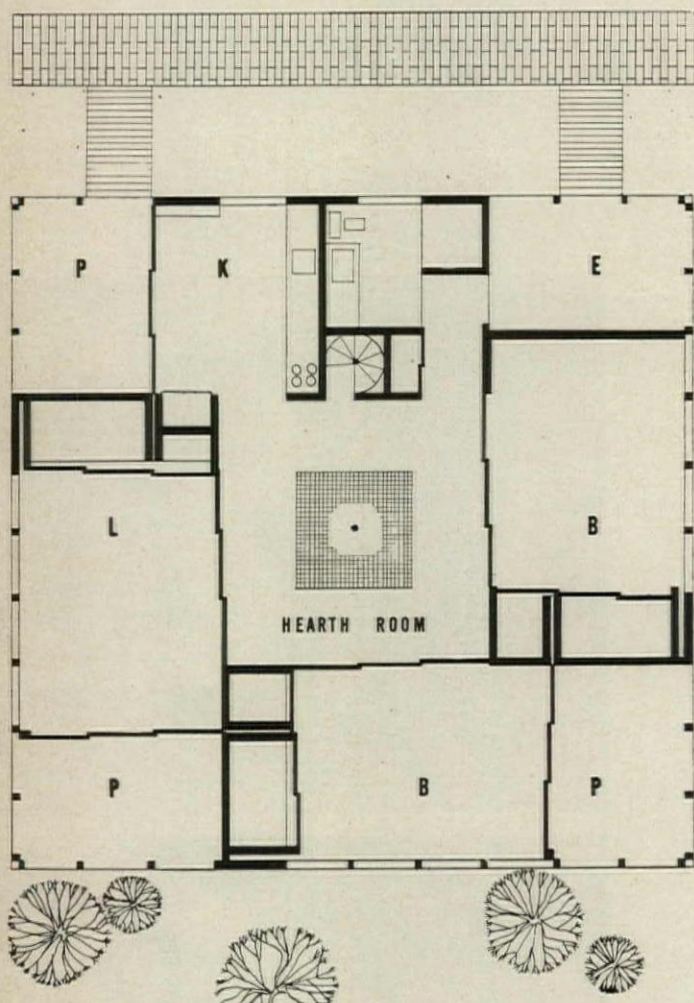
Even the furnishings are modular, and a series of coordinated fittings make up into stools, tables, chairs, chaise longues, benches—and even beds for unexpected guests.

The main level of the house, resting on the wooden columns, is attached by bridges to the entrance driveway to preserve a "floating" look. An inset circular wall of brick encloses a lower level, housing a big basement work area, shower for swimmers, storage, and space for laundry equipment.

PHOTOS: © EZRA STOLLER



## AN OPEN INTERIOR SUBDIVIDES INTO MANY ROOMS



THE PLAN of the Sterling house is divided geometrically into a series of open and closed spaces which surround the central 16-ft square hall or "hearth room." The spaces are separated by opaque sliding walls, placed so that great flexibility of arrangement is possible. Each exterior corner of the plan contains an open porch which can be joined to its adjoining interior space by moving a series of glass doors. The central room is tiled in the middle, and has a removable steel fireplace pedestal. The flue telescopes, so that the chimney section can be pushed out of the way against the ceiling.

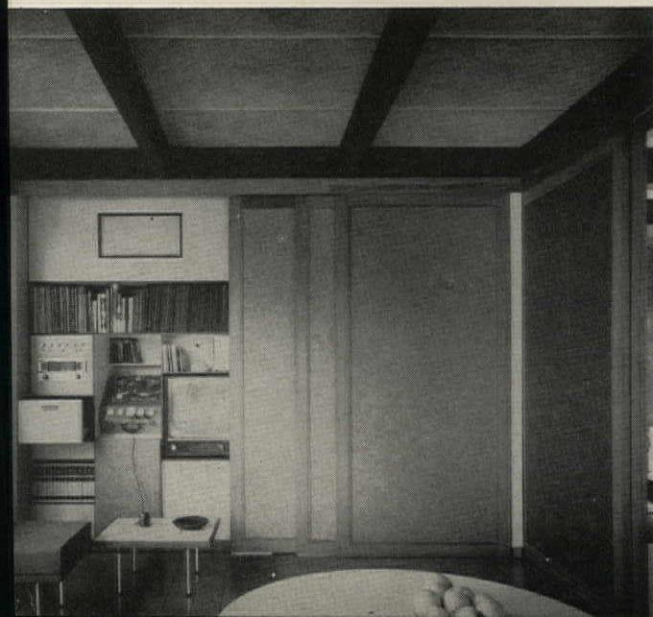
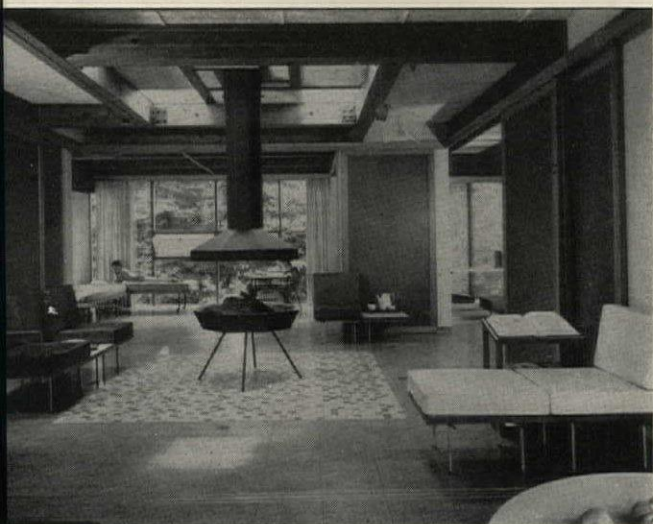
TOTAL COSTS for the house were \$27,000, excluding lot, landscaping and furnishings. The area of the main level (ten bays of 4 ft each on all sides) is 1600 sq ft. The circular lower level basement work area measures 36 ft in diameter.

NOISE CONTROL, a very important item for an open floor plan, is well taken care of by sound absorptive surfaces. Ceilings are exposed structural and insulating roof decking panels. Floors are cork. Cork is also used on many of the sliding doors and walls. Storage walls between bedrooms also help muffle sound in these areas.

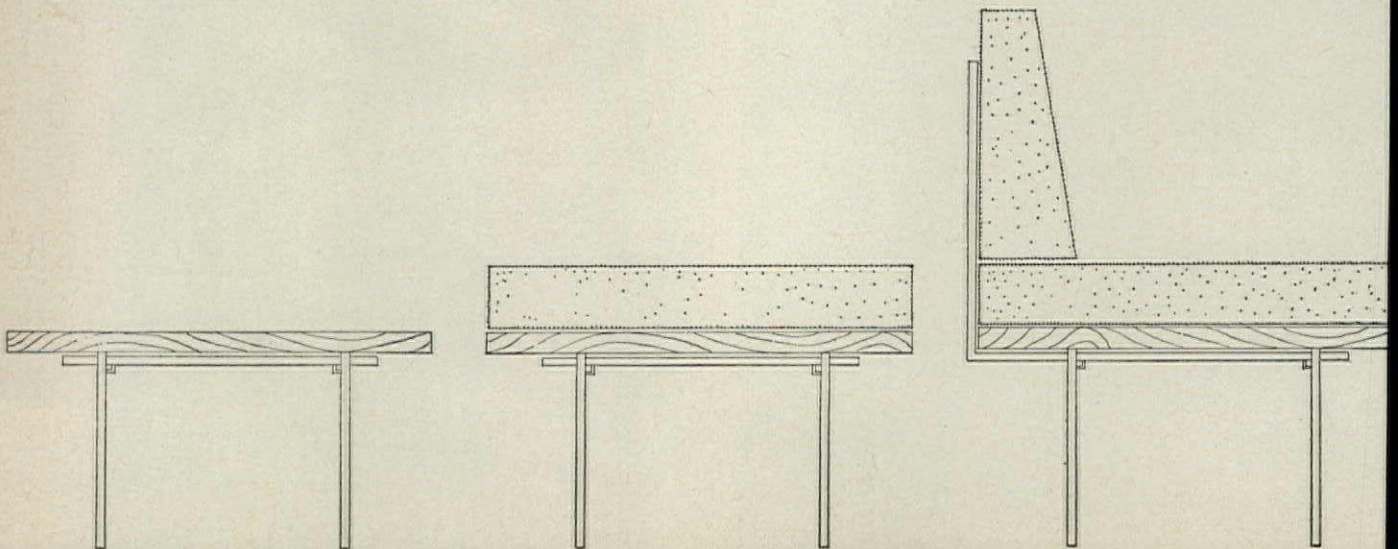
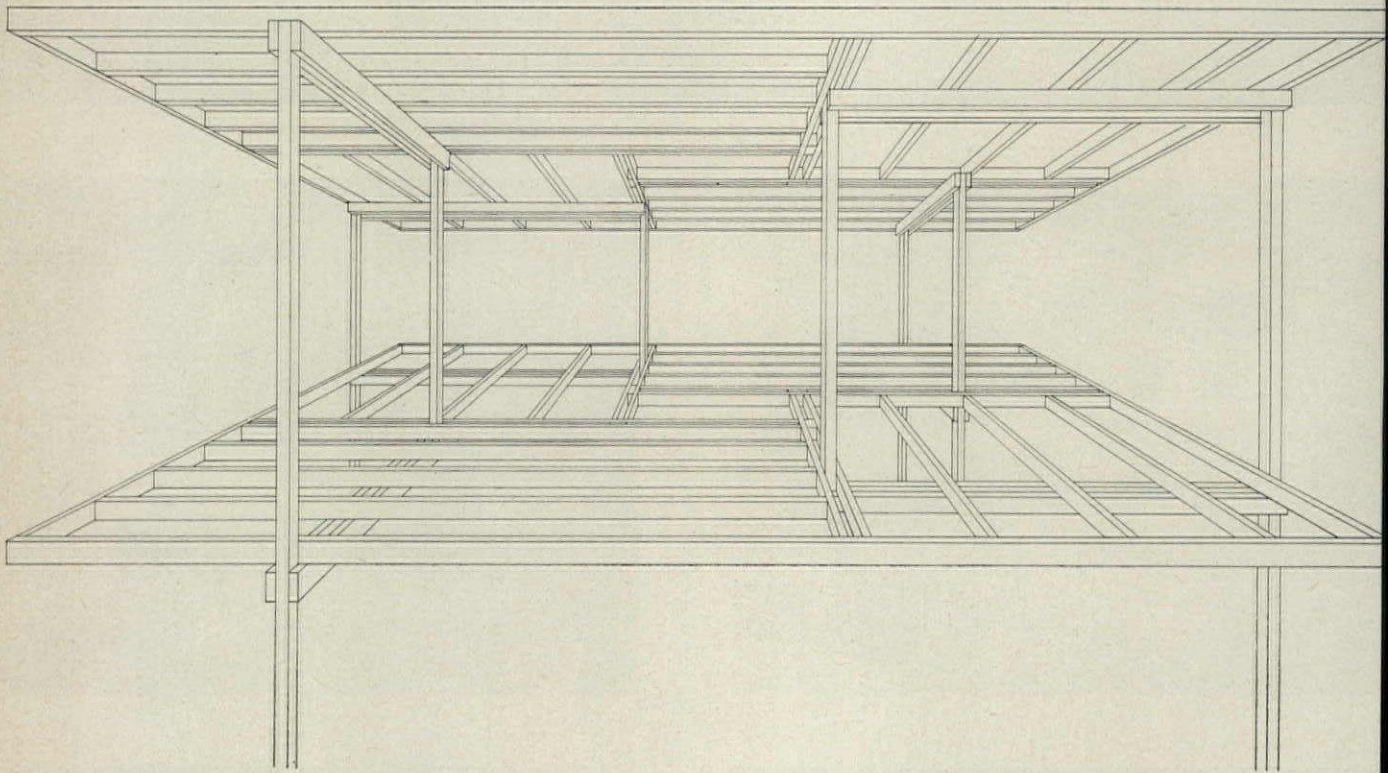
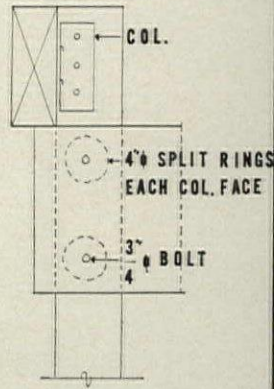
THE EQUIPMENT in the house is very ample, and planned to be as unobtrusive as possible. Much is behind storage wall panels. The kitchen has a built-in unit kitchen combining sink, range and cabinets. The refrigerator is also built-in. Heating is by a thermostat-controlled forced warm air system. Storage walls contain built-in TV, radio, phonograph; bedrooms also have separate built-in lavatories in the storage spaces. Electric washer and dryer are located in the basement area.

All materials were especially selected for extreme ease of maintenance—most surfaces are waxed. Baths have ceramic tile floors and wainscoting; all sash is aluminum.





# THE PLAN, STRUCTURE AND FURNITURE ARE MODULAR



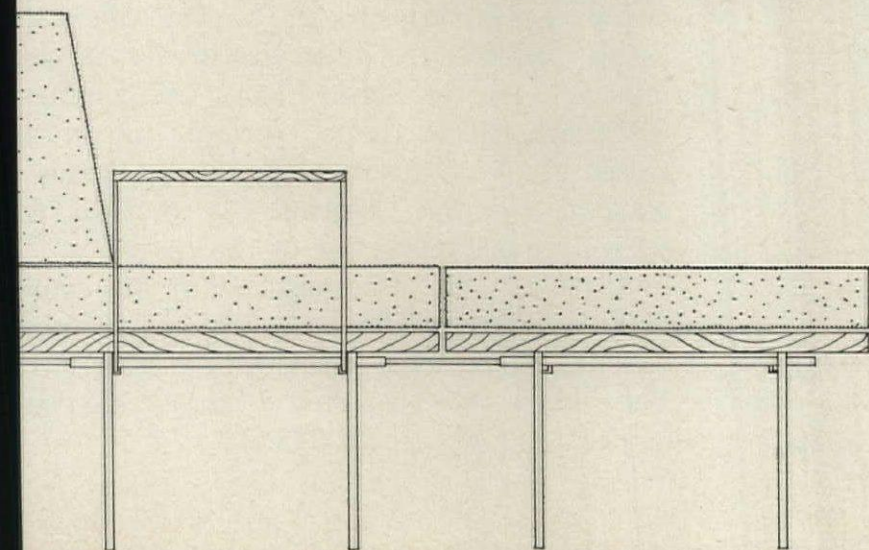
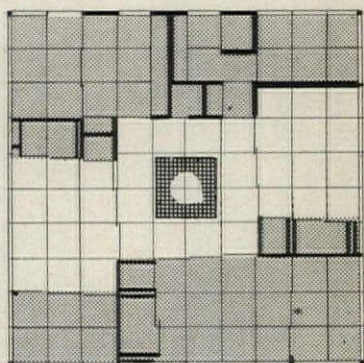
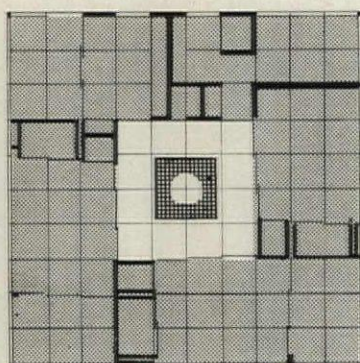
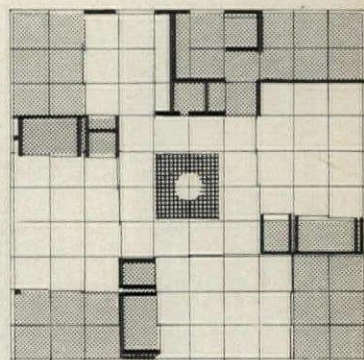
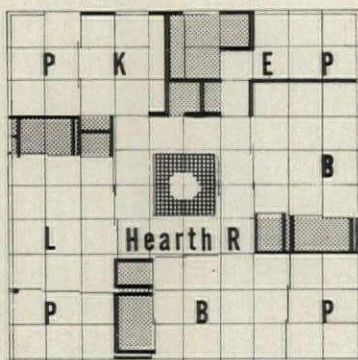
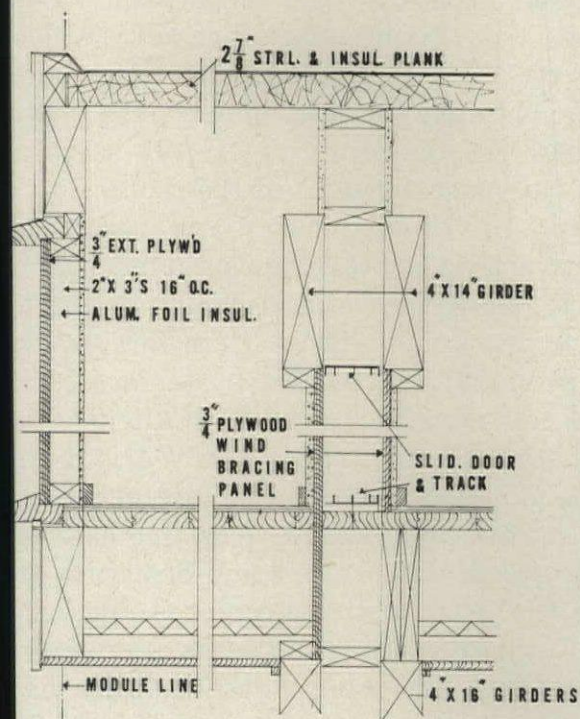
THE STRUCTURAL FRAME of the Sterling house (left center) is an unusual concept, which has proven to be extremely strong and solid. It was derived from the fireman's carry, where each of two persons clasps one of his own wrists and the free one of the other person—great weights can be maneuvered in this way. There are only eight column supports in the frame of the house.

CONNECTIONS for the structural members (detailed left) are very simple, employing standard metal devices.

THE CROSS SECTION (below) shows how the various enclosing panels are fit into the structural frame. The roof is surfaced with white marble chips; the gravel stop is stainless steel; foundations are concrete.

THE PLANS show variations of spaces.

FURNITURE DIAGRAMS (bottom) show a few combinations of the few basic members.





This many-terraced house, set in a delightful rolling landscape, has a relaxed urbanity in its design which reflects its careful planning for casual comfort and enjoyment. Convenience, easy maintenance, privacy, outdoor living are all well provided for. The landscaping, with many beautiful flowering plants and trees, was carefully devised to serve a varied outdoor extensions of the rooms.

Within the house, privacy and zoning for different activities are emphasized by change in level, following the land contours. Living areas occupy the lowest level (in foreground photo at right) surrounded by terraces. The rear of this wing is ranged with kitchen and utility areas. The entrance (above) is on an intermediate level, and has a dramatic and useful covered walk (above) running between the garage and the service wing. Bedrooms are on the top level, with balconies lining each room. Future bedrooms and baths are planned to extend in a new wing on the opposite side.

Interior finishes were chosen with especial attention to easy maintenance. Walls are brick or plywood in major rooms, ceramic tile in the baths, plasterboard in service areas. All ceilings are plasterboard. Floors are surface with cork tile or carpet, ceramic tile in the baths. Much of the furniture in the house—seating, counters, storage—is built-in for maximum organized use of the spaces.

Further comfort is assured by air conditioning. Heating is by a natural gas furnace. Thermal insulation is provided by 3-in. batts. The square foot cost of the house, including landscaping, was about \$18.00.

A. L. AYDELOTT & ASSOCIATES, ARCHITECTS

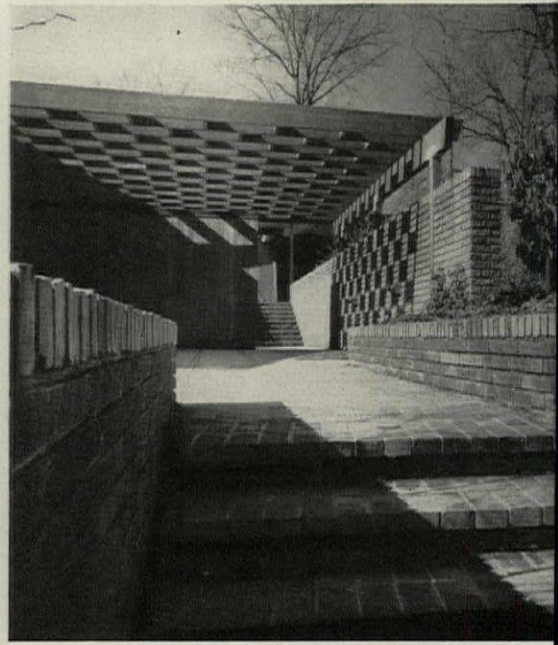
*Residence for Mr. George Goldsmith*

*Helena, Arkansas*

*Garrett Eckbo, Landscape Architect*

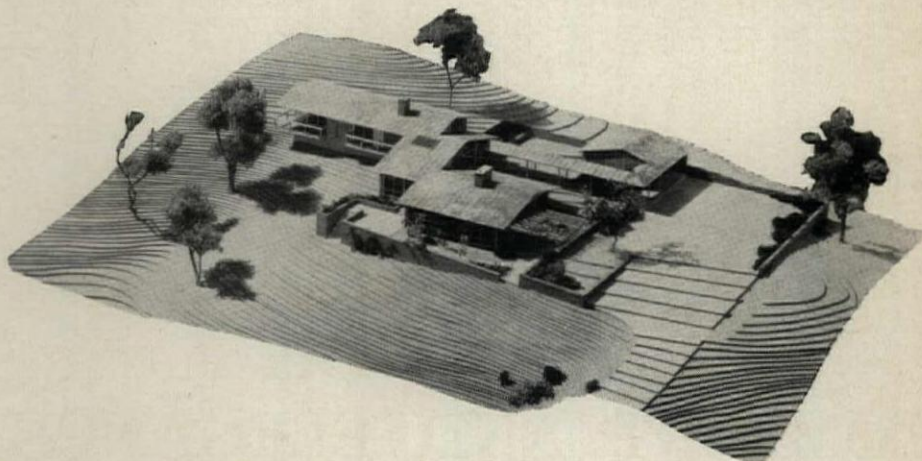
# A SETTING FOR RELAXED COMFORT





PHOTOS: ALLIED PHOTOGRAPHIC ILLUSTRATORS

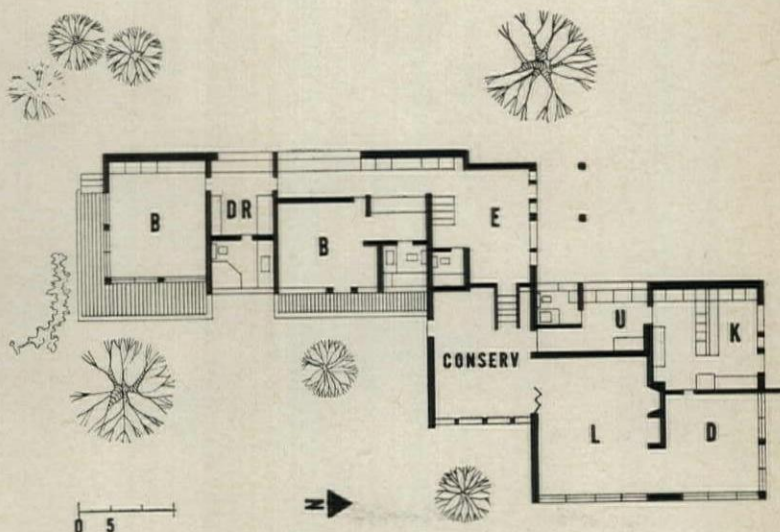
## HYTHM OF LEVELS AND ROOFS ECHO THE SITE



THE PLAN of the Goldsmith house follows the terraced slopes of the site to create a series of level changes within the house to help define activity areas and add to visual interest. On the exterior of the house the rhythmic play of the gable roofs of the different levels becomes the dominant design motif.

LANDSCAPING is skillfully used to complement and expand the plan. At the front, an entrance court created by the house and a detached garage has a covered walk leading dramatically through a landscaped garden to the entry. All living and service areas have planted, tree-shaded terraces, with steps leading to the lower level gardens.

THE STRUCTURE of the house is wood frame with unit concrete masonry foundation walls and poured footings. The exterior is brick veneer, vertical wood siding. Roof is asbestos shingles.



# COMFORT AND ELEGANCE IN TANDEM





PHOTOS: BEN SCHNALL



A result of concentration on the simplicity of form and effects and of lavish attention to detail and finish, this house might be called a successful performance in the art of inconspicuous consumption. The problems here were of plenty rather than of the usual limitations—how to use a generous budget to best advantage and how to organize the clients' many and varied requirements, chief among which was accommodation for four young children. The house offers a great deal of daily comfort and a capacity for both formal and informal entertaining.

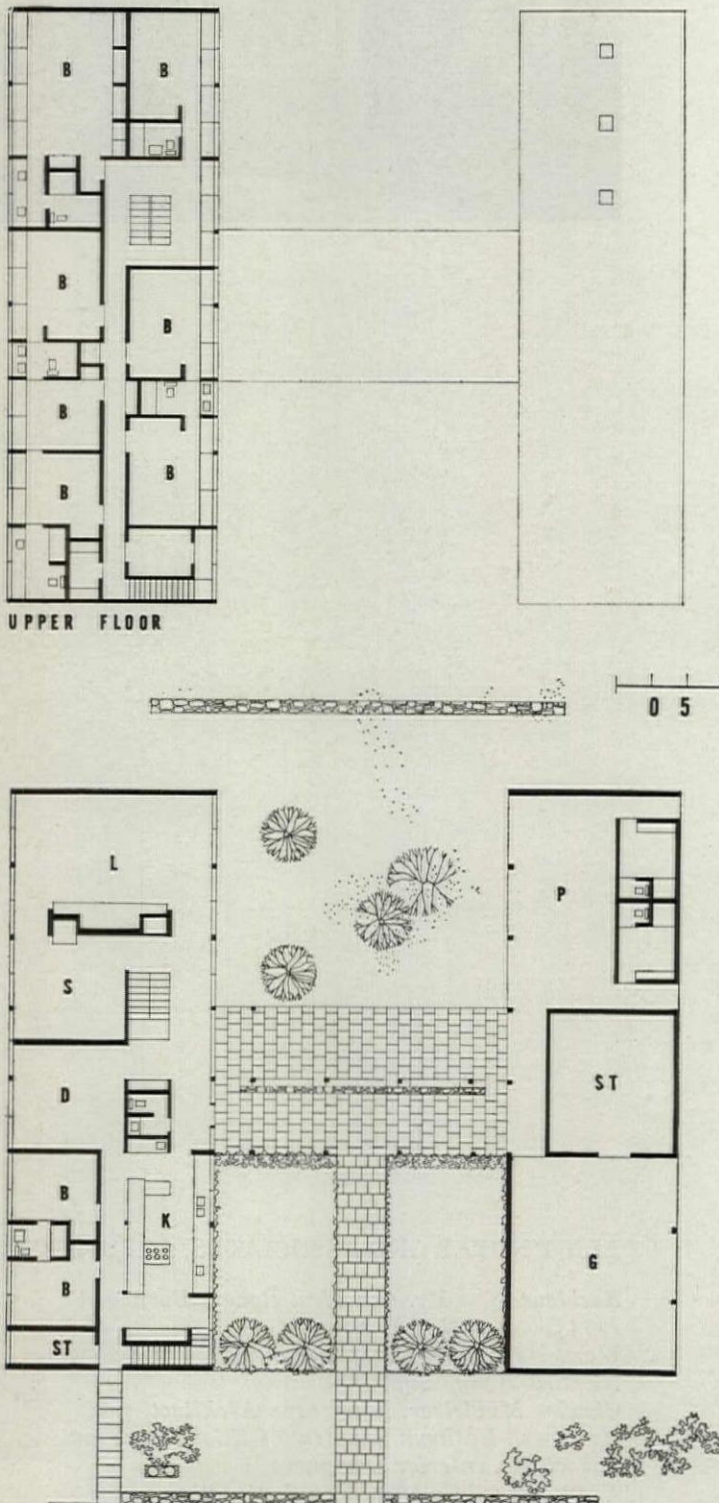
In plan, it comprises three areas—a one-story area including garage and dressing rooms for the pool, a covered entryway, and a living wing. This last area has two stories, a local zoning requirement which the architect feels was in the end fortunate in helping to solve space problems. The care given to the house's internal arrangements is exemplified in the organization of the kitchen; a sizeable room with extra facilities for flower arranging and drink mixing, it can be operated efficiently by one person or by a large staff, working inside or outside the U-shaped area, or kitchen-within-a-kitchen, in the center.

Typical of the restraint allowed and utilized in the treatment of the exterior, where the structure is simply expressed, with "no sun control overhangs or such things," the architect reports, "partly because the house is fully air-conditioned, and partly because we didn't want to complicate the form." Inside, the built-in storage lining both sides of the second floor tests the same respect for craft.

ELIOT NOYES AND ASSOCIATES, ARCHITECTS

*Residence for Mr. and Mrs. Robert Bernhard  
Port Chester, New York  
Werner-Jensen & Korst, Engineers  
Richard Kelly, Lighting  
Charles Middleleer, Landscape Architect  
Hugh and Kathryn Smullen, of Eliot Noyes and  
Associates, Interior Designers  
E. W. Howell Co., Building Contractors*

## LUXURY AND LIVABILITY STEM FROM CARE TO DETAILS



THE STRUCTURAL steel framing system is arranged in bays of three widths: two widths in living area give flexibility in planning; still wider bay gives unobstructed garage. Steel is painted and exposed. Walls are asbestos-cement panels and cypress.

FURNISHINGS in the Bernhard house were many cases designed by the architect's office, as, for instance, the aforementioned built-in storage (see unit in child's bedroom at upper right) and the kitchen shelving. The colors throughout are clear reds, yellows and blues spotted against white walls and natural wood; the children's room, though almost identical down to the specially designed slab-beds, are differentiated by the color of their decorations. The kitchen is finished with bright-colored porcelain enamel and hard-plastic surfaces. Insulating batts throughout house serve as both acoustic and thermal controls.

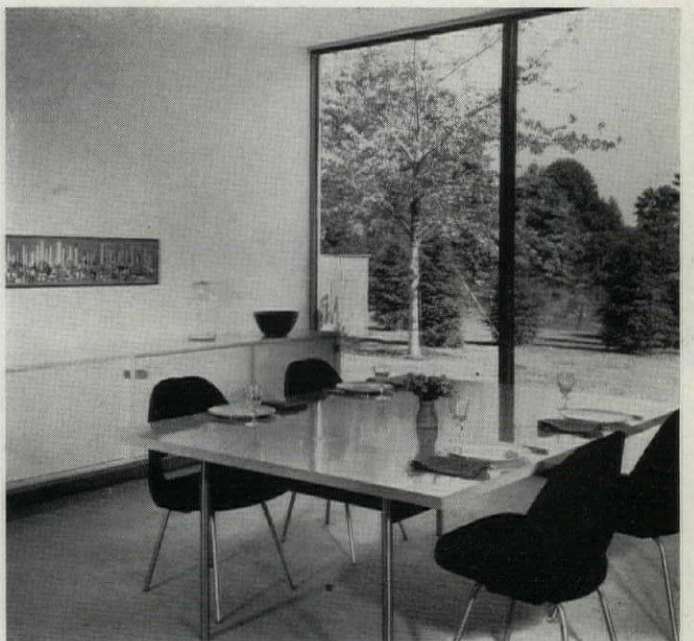
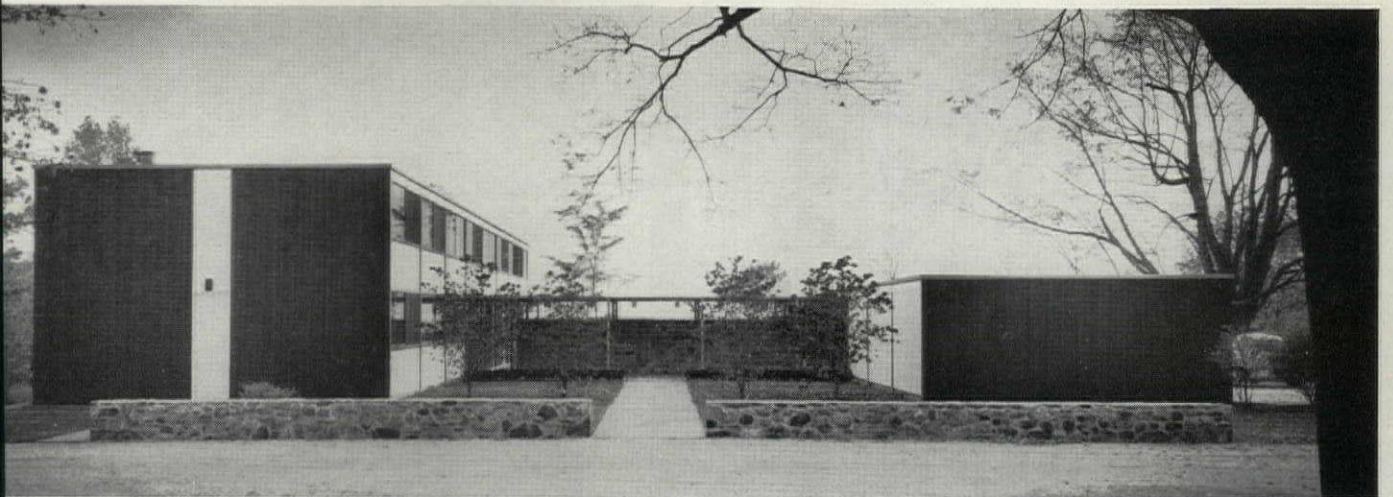
MECHANICAL EQUIPMENT includes forced warm-air system providing for both heating and cooling; the heating system is electrically controlled and has five zones—three on the first floor of the house, two on the second.

The electrical system is operated by low voltage remote control. All kitchen and laundry equipment are electric.

Water is supplied by a deep well two-pipe ejector pump, and piping is all black plastic.

Extras include specially designed intercom and radio-television-phonograph system. The electrically-operated upward-acting garage doors are also specially designed; a gasoline pump is installed near the garage—all of these services out of sight from the main part of the house.

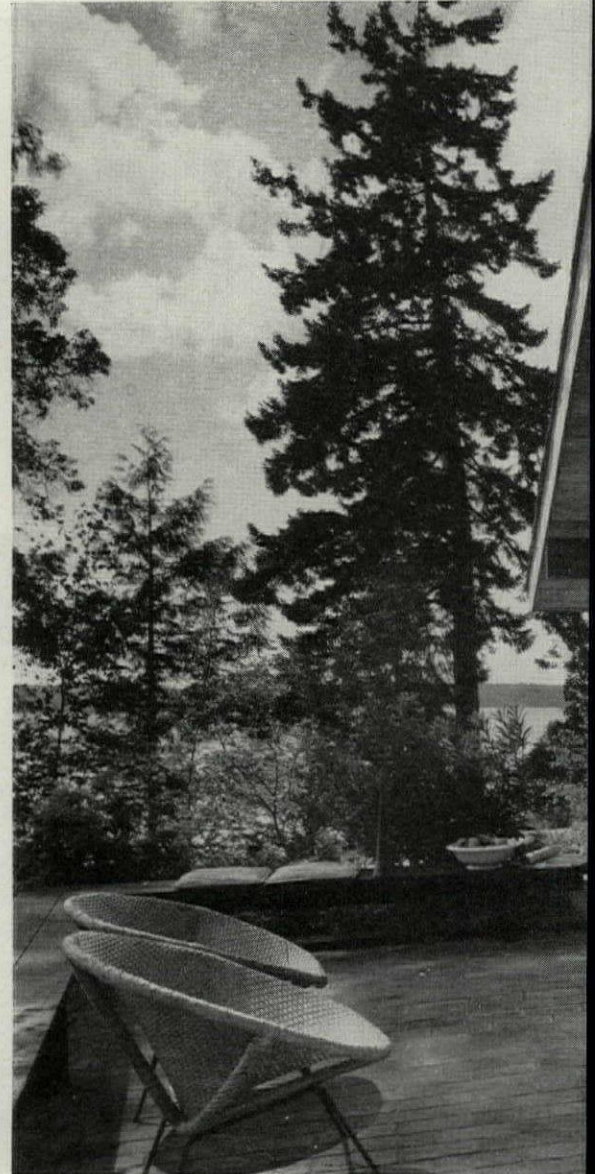
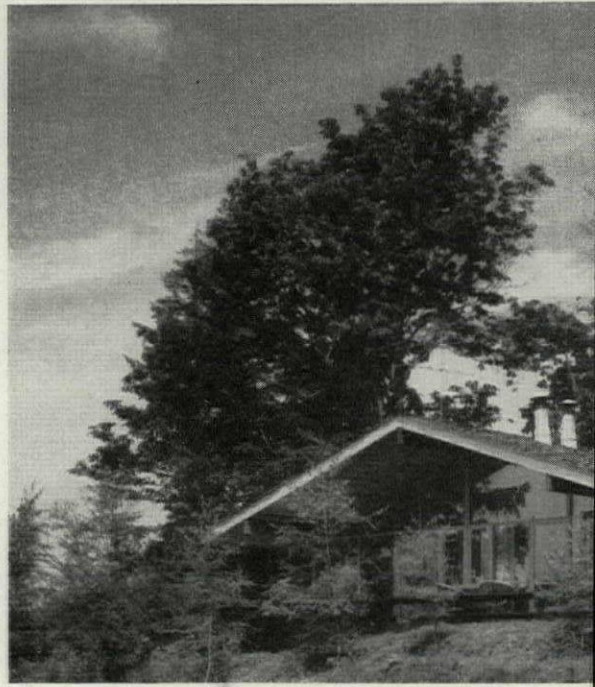
A fire house cabinet located on the second floor gives safety and insurance benefits.




ROBERT BILLSBROUGH PRICE, ARCHITECT


*Residence for Mr. and Mrs. T. Harbine Monroe  
Tacoma, Washington*

*Lawrence Halprin, Landscape Architect  
Allen Hampton, Contractor*





## A HAPPY MERGER OF SITE, PROGRAM AND FORM

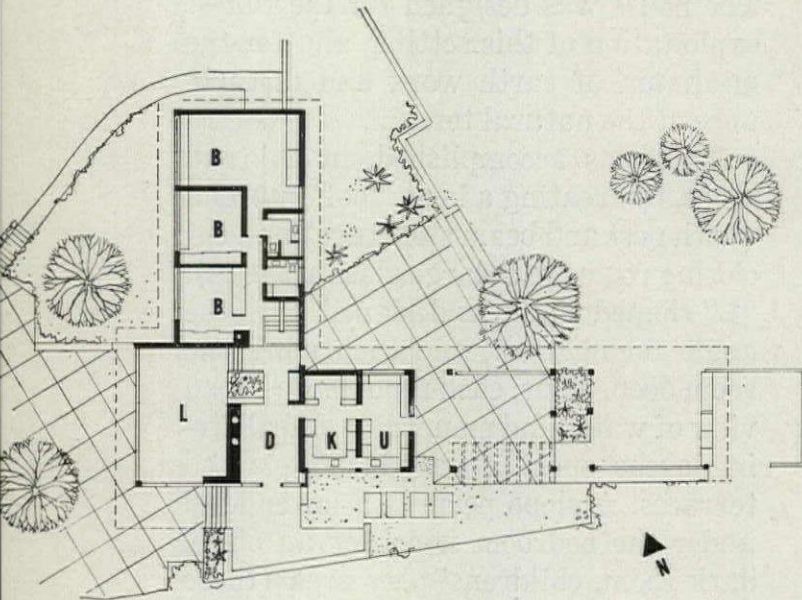
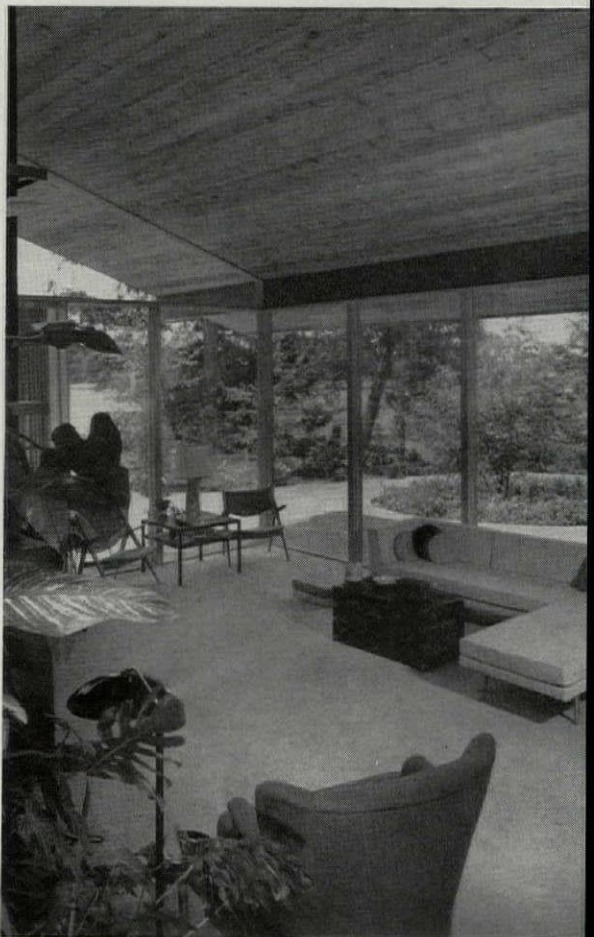
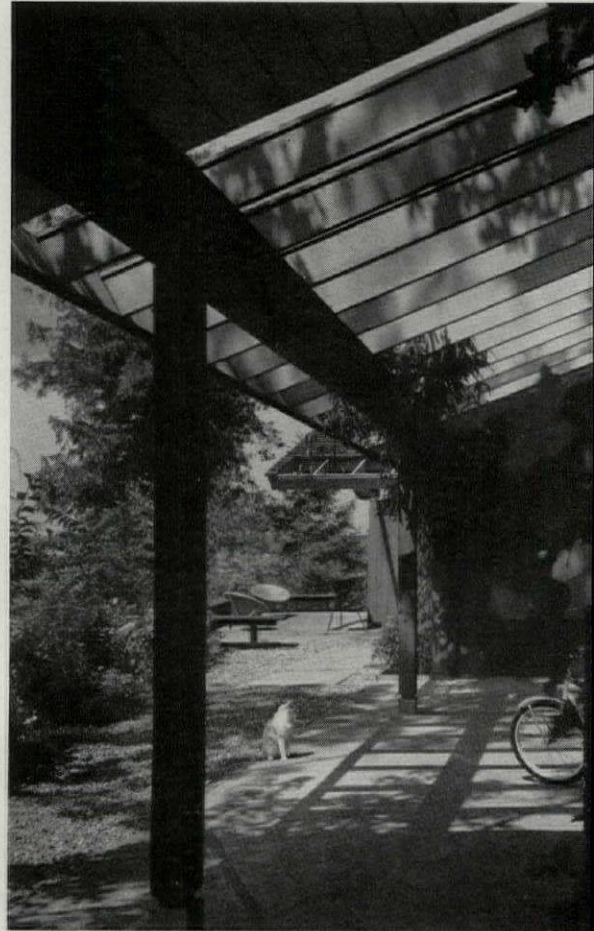


This house is an excellent example of the warm, relaxed style that "North West Architecture" has come to mean. It is a style well attuned to casual family life, and to beautifully wooded sites.

The land, in this case, is a heavily wooded, two acre, suburban site, overlooking Horsehead Bay on Puget Sound. The view of the Bay is to the west with the Olympic Mountain range beyond. The house was designed for the fullest exploitation of this setting, and for the minimum of earth work and disturbance of the natural terrain.

This was accomplished, in a broad sense, by creating a large roof umbrella (with post and beam structure) and enclosing rooms with large glass areas. An "L" shaped plan was designed, with the angle facing west, and each wing one room deep. Thus, each room has a broad view of water and mountains and all living areas open to paved and planted terraces. A slope permits a lower level under the bedroom wing for an office, dark room, childrens' play area (there are two sons, ages two and six), extra bedroom and bath. A partly-covered play yard to the east is easily supervised from the utility rooms; it is shielded from the main entry court by a fence.

SPACIOUS INDOOR-OUTDOOR ATMOSPHERE ADDS QUIET DRAMA



THE GOOD LIFE" on a casual key might be called the theme of this house, with its emphasis on pleasant spaces, comfort, and ease of upkeep. The living area acts as the hub of the plan, and is dramatized by high pitched ceilings, skylights and a drop in floor level. Stairs lead to lower-level play rooms.

FURNISHINGS for the Harbine Monroe house are kept simple and in low key, to emphasize both spaciousness and the view. The exterior colors of the house are repeated: natural woods, brown, beige, pumpkin, and uncarpeted floors of red common brick. There is practically no pattern used, except for the textures of the materials and the play of light and shadow. The rooms are a good background for people, plants and possessions. A seat-high fireplace opens two ways.

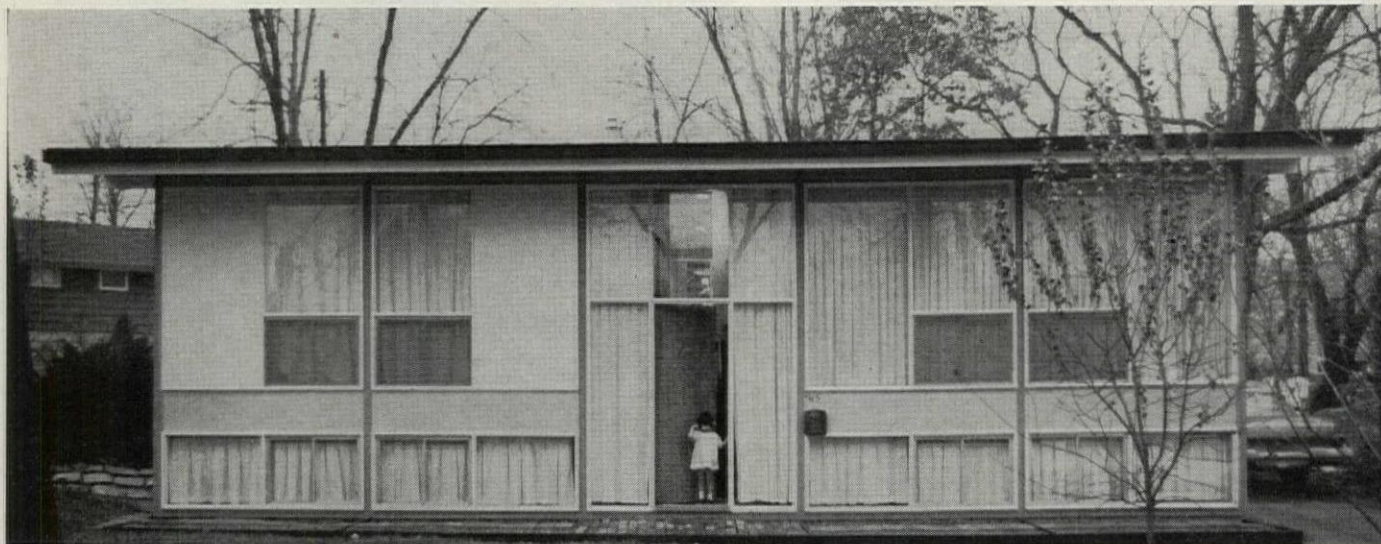
THE PLAN has good zoning of areas, good circulation. For active family living, it also has the great advantage of providing a variety of areas for simultaneous recreation or entertaining of different age groups: two levels of living areas, and a number of separated terraces and garden areas. And it is not a really big house. The service rooms are convenient to the garage, and to all living and dining areas, indoors and out. The roof overhang on the south was calculated to allow winter sun to penetrate the living area; summer sun is cut off. To the west, the overhang keeps out all but late afternoon sun.

THE STRUCTURE of the house is of laminated wood beams with 2-by-8 joists over; all are stained brown. The roof is natural cedar shakes; soffits and ceilings on the interior are re-sawn cedar, with a neutral preservative stain. Exterior walls have 1-in. rough-sawn cedar siding, stained dark brown; all ash and stops are painted beige, the fascia is painted pumpkin color. Glazing is either fixed double-pane, or casement sash for ventilation. Interior partitions are framed with 1-by-4's or 2-by-6's, and finished with stained cedar or painted plasterboard. Glass-fiber batts are used for thermal insulation. Foundations are poured-in-place concrete.

The heating system is hot water, and is located in floors and ceilings, with the boiler in the basement. All hardware is aluminum, and the built-in gutters, flashing and downspouts are galvanized iron.



# SIMPLE DETAILS PARE CITY-HOUSE COSTS TO MINIMUM



GYO OBATA, OF HELLMUTH, OBATA  
& KASSABAUM, ARCHITECT

*Residence for Mr. and Mrs. Gyo Obata,  
St. Louis, Missouri  
John P. Nix, Engineer  
E. C. Mikkelsen, Contractor*

How to get simple elegance, expansive livability—and rock bottom price—is about the biggest challenge for an architect, considering today's building market. And it is probably all the more so if he has to live in the result. This little house nears the goal. A thoughtful interlarding of practicality and sensitivity gives it a generous measure of all three qualities.

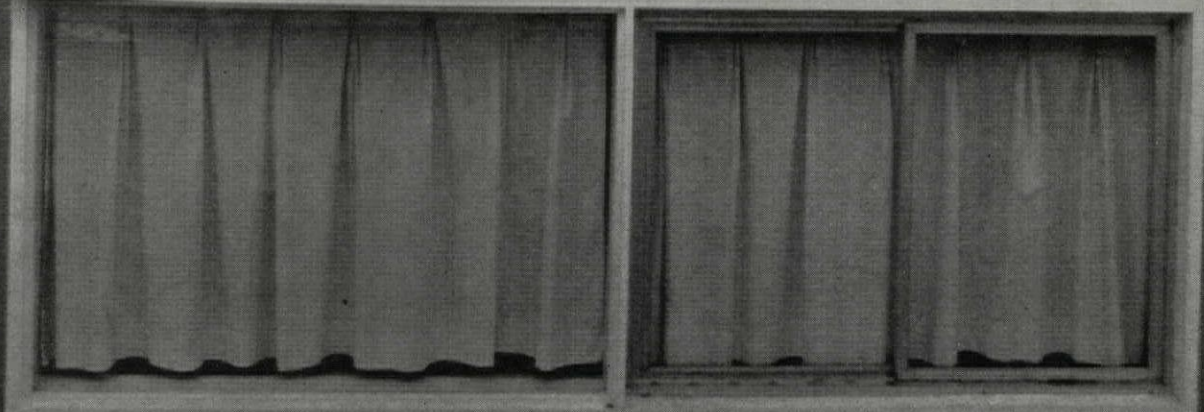
A sophisticated exterior is achieved by great economy of means. All the necessities (of fairly ordinary materials) are frankly but carefully disposed, and subtly emphasized by color and proportion, into *almost* perfect symmetry. But not quite. It is probably this quality—throughout the house—of stopping just short of a too formalized approach, that gives it interest and livability. Familiar (and formal) techniques are perked up by little surprises.

Costs were also minimized by use of simple mill-constructed panels, set between columns on an 8-foot modular spacing. A slope in the site allowed windows (and thus living space) in what otherwise would have been basement, doubling the useful area of the house.





915



## SPACE AND GOOD EQUIPMENT IN A MINIMUM HOUSE

THE PLAN gains a sense of added space by several means. The most important is the use of the sloping lot to get a split-level house. The lower level only has a 2½-ft high window, but since it goes across the entire front and faces south, there is plenty of light. This level houses a bedroom-studio suite for the parents, playroom for the three children, and a large storage room.

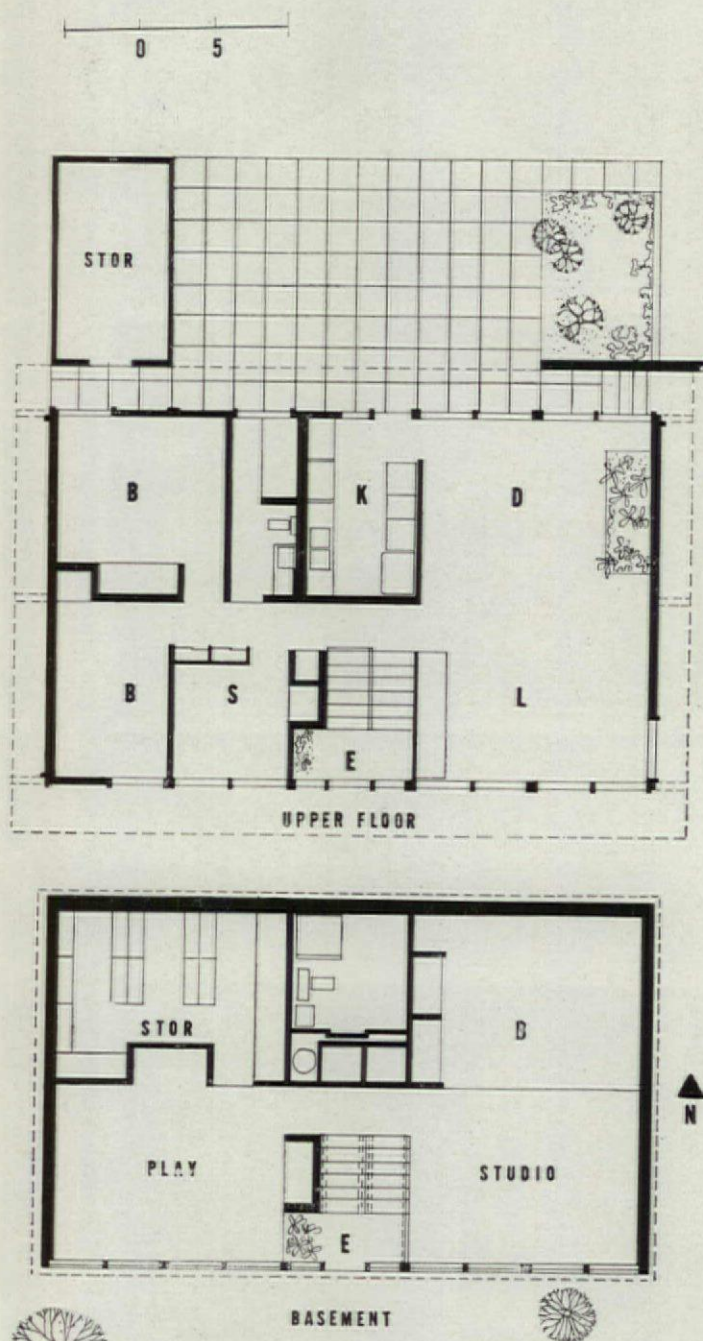
THE PROGRAM, AND BUDGET, required the limit of 1000 sq ft per floor. The house actually measures 24 by 40 ft, or 960 sq ft per floor. The original contract was \$15,000, but the architect notes, "We have added to it so you might say it was under \$18,000."

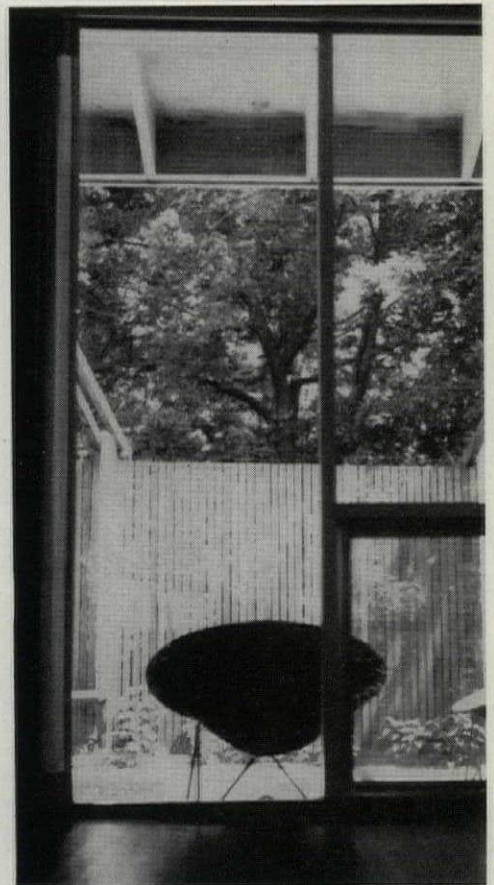
As noted, the structural system did much to keep the costs low. Once the concrete foundation walls were poured for the basement, columns of three 2-by-4's were erected on an 8-ft module, and the roof (2-by-8's, 24-in. O.C.) was put on. Next, a 40-ft I-beam spanning the lower level was placed, and the upper floor of 2-by-8's, 16-in. O.C. End walls (2-by-4's, 16-in. O.C.) were stuccoed.

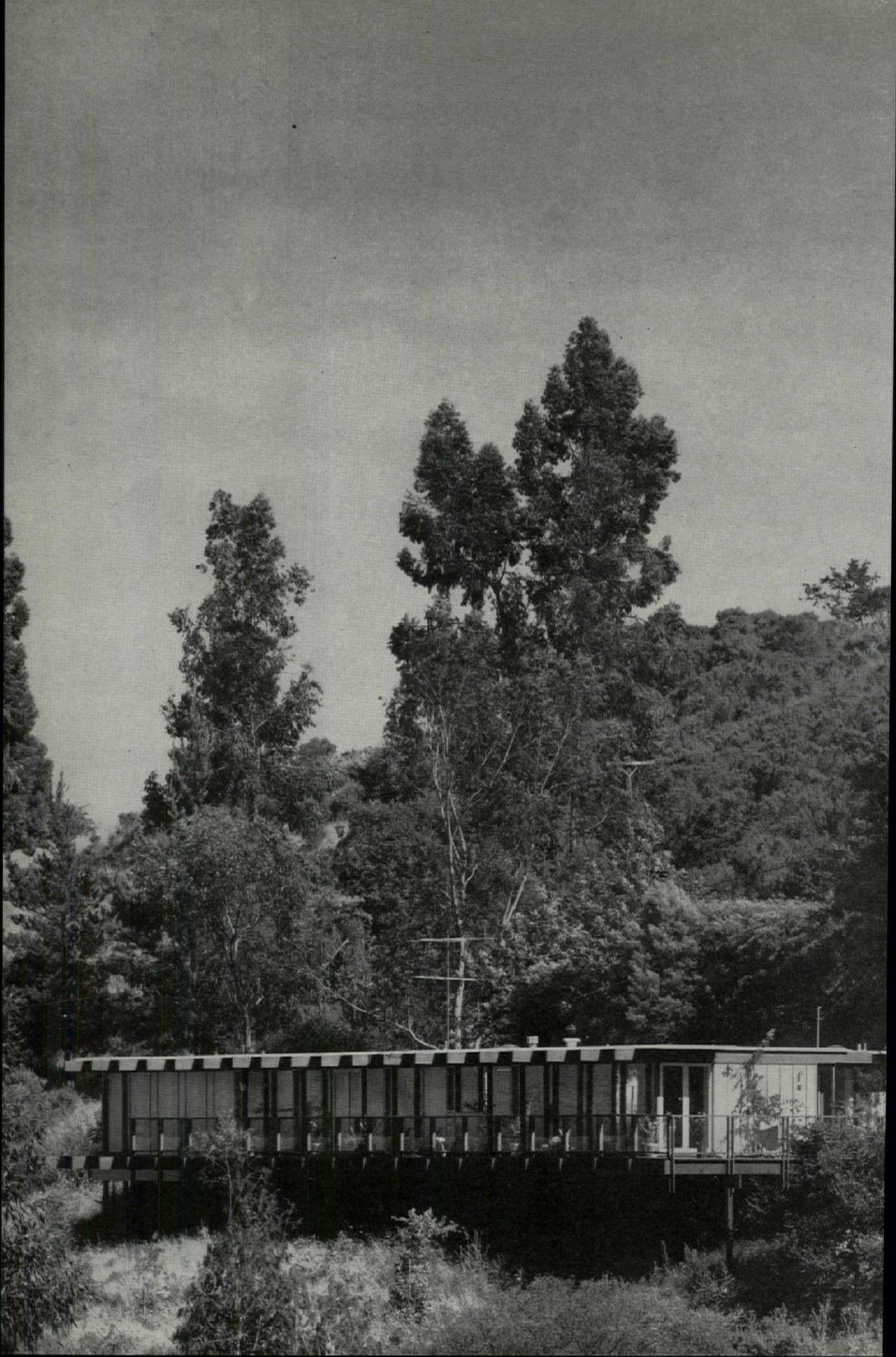
PANELS, made up in a mill and delivered to the site, form the north and south walls. All were made from two simple profiles cut out of 2-by-6's. The panels were set up between the columns in two days. They are filled with glass, stucco, doors, or aluminum sash. The beams on the north and south walls were made up of two 2-by-8's, with the middle 2-by-4 of each column extending above it. A rafter was nailed to each extension, forming a very rigid connection every 8 ft. As interior ceilings and walls are plastered, columns and beams were covered on the inside with birch plywood and 1-by-2 trim for a better finish.

Floors in most rooms are red oak; the kitchen has plastic tile, and the playroom has asphalt tile. The baths are ceramic tiled. The roof is surfaced with white marble chips.

THE EQUIPMENT in the house is quite complete, considering the budget. There is a year-round, gas-run, air conditioning system. The kitchen has an exhaust fan. The electrical wiring system has mercury switches, circuit breakers. Lighting fixtures in living areas and kitchen are recessed. A custom-built cabinet houses radio-phono-TV equipment. The kitchen has a gas range, electric refrigerator-freezer and washer, gas dryer, and a garbage disposer.







ROBERT L. GOETZ OF GOETZ AND  
HANSEN, ARCHITECTS

*Residence for Mr. and Mrs. Robert L. Goetz  
Geraldine Knight Scott, Landscape Architect  
Kenneth L. McKay, Contractor*

## FOR THE CASUAL LIFE: SIX ROOMS WITH A VIEW

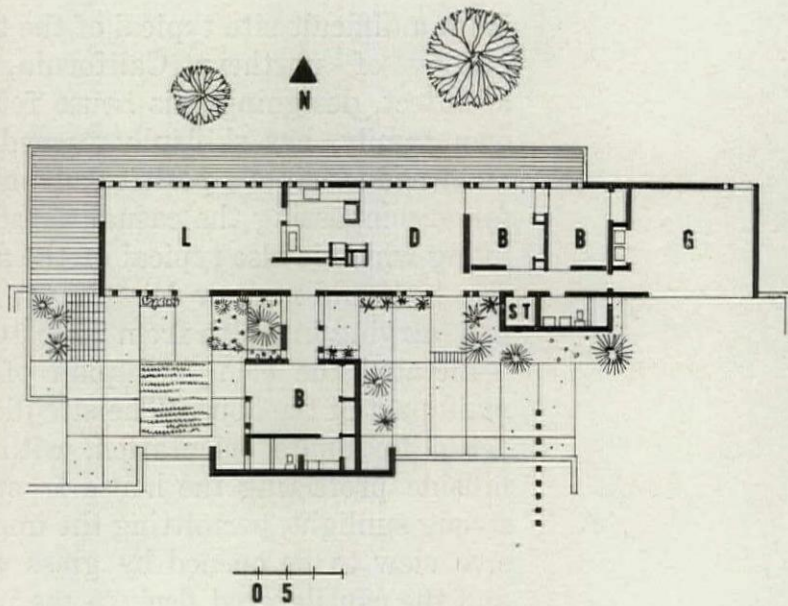
With a difficult site typical of the topography of northern California, the architect, designing this house for his own family, has skillfully turned the awkwardness into a positive advantage for encompassing the casual, fresh-air living which is also typical of the area. The long and narrow lot—300 ft long and varying in width from 75 to 100 ft—dictated the elongated plan of the main part of the house. The site did offer a fortunate orientation, with the hillside protecting the house from the strong sunlight, permitting the impressive view to be opened by glass walls and the cantilevered deck to the north and west.

Within the house, the simple plan provides effective separation of children's and adults' activities; the three young boys have their own entry (and mud room) through the carport. At the same time, the house provides the flexibility required for informal living. This flexibility is accomplished in part by the number of areas which perform double functions—the dining room is a play room during the day, but can be cleared quickly at evening; the entry patio does duty as a playground, and the patio outside the living room can be an extension of the master bedroom.

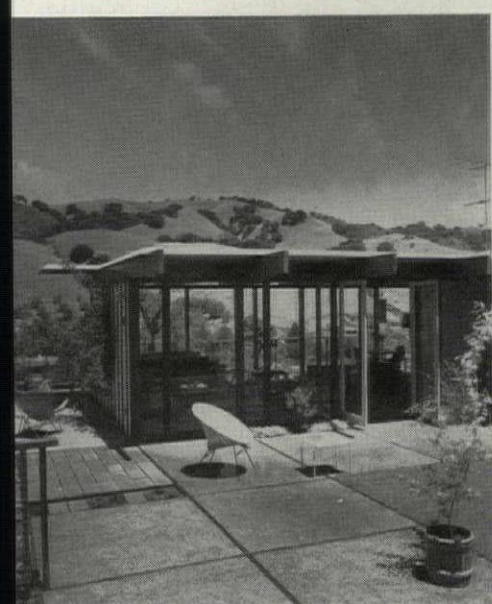
PHOTOS: KARL H. RIEK

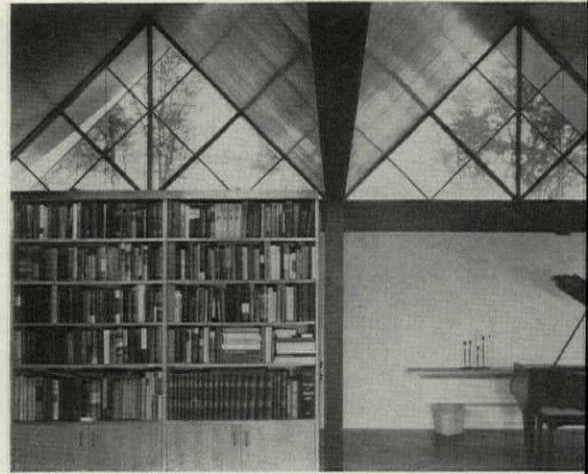
## FOR EVERY ROOM, ITS OUTDOOR COUNTERPART

THE FRAMING is wood post and beam, with walls of asbestos-cement panels, a material chosen because it needs neither paint nor maintenance. Battens are redwood. A concrete block wall along the south wall of the master bedroom and its adjoining patio retains five feet of earth; built into hill, the architect says, "creates a pleasant outdoor counterpart to the long north wall which hovers out in the air, and also insulates the sleeping area from the hot summer sun." A 4-ft overhang shields glass walls on both sides of the living room. Roof is two-by-six tongue and groove (left exposed as ceiling) covered with insulation and rock-surfaced roofing. French windows, rather than sliding doors, were chosen to complement character of design.



INTERIOR FINISH has vinyl-asbestos tile flooring in all areas except for the living room and master bedroom, which are carpeted. The entryway is floored with a base of white cement topped with varicolored rock which, the architect says, "we poured ourselves after bringing back a trail load of rock from the Russian River (north of San Francisco)." The use of color is simple and restrained, with posts and beams being charred against white-painted gypsum walls; accents are rust and gold throughout the house. The bedrooms, conceived as a single area, are divided by door-high cabinets and partial screen walls. The master bath, obscured glass jalousie admits light and air into shower from walled-in garden.





# PEAKED ROOFS AND COLORED GLASS ENLIVEN THE WOODS

A mingling of exuberance and quiet gives unexpected flair and freshness to this handsome house. To the tidy virtues of traditionalism, a strong lashing of expressionism has been added: the design consciously imitates the sharp forms of rock outcroppings on the site, the repeated verticals of the trees, and the soft colors of the woods.

The house meanders calmly, U-shaped, around a graveled motor court. Major axes are emphasized in the generally horizontal, flat-roofed structure, by twin peaks over the entrance and living area, a single conical peak over the play room. Gable ends are clad with vibrant green and blue glass; beyond the peaks, a strip of the same glass runs just under the eaves around the entire house. Narrow vision strips of clear glass run to the center of each bay. As one goes through the house, views of the woods are constantly offered in varying segments, shapes, tints.

From the front court, the house deceives the eye; it appears to rest on flat ground. Actually, the court is the *only* flat spot on the site, and abruptly drops to a small lake at the rear. The house juts over the slope on stilts, and a lower level under the living area. It is a house, built with a rather generous budget, that has an air of naturalness, but an artful naturalness. Each item is precisely and painstakingly detailed, and put together with craftsmanlike precision. The structure is clean, unadorned—pressed—and exposed—but integrated into the design.

The landscaping reflects the spirit of the house: the court is carefully manicured, the rest of the land kept naturalistic.

EDWARD LARRABEE BARNES, ARCHITECT

*Residence for Mr. and Mrs. Donald Miller, Jr.  
Chappaqua, New York*

*William Atlas, Structural Engineer*

*Benjamin Spivak, Mechanical Engineer*

*O'Brien and Kinkle, Contractors*

*Bye and Herrmann, Landscape Architects*

*Mary Barnes and Emily Malino, Interior Furnishing*

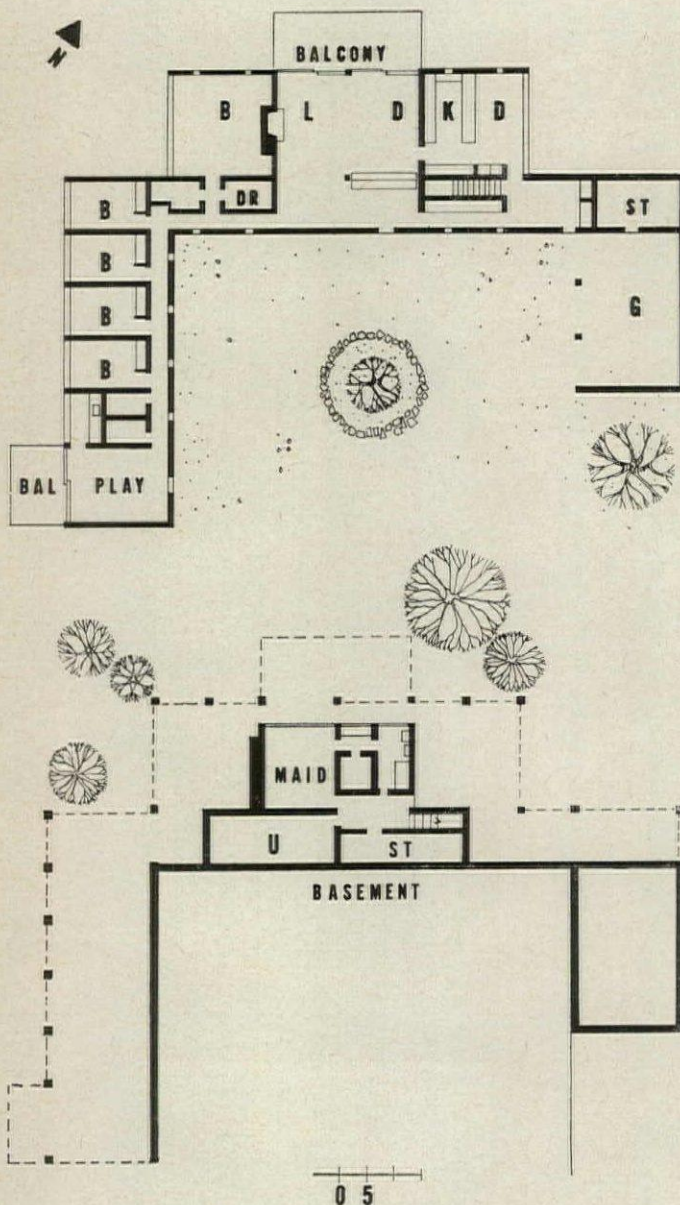


PHOTOS: BEN SCHNALL



## STRUCTURAL ORDER UNIFIES U-SHAPED PLAN

THE PLAN is zoned into three major areas: children's wing; an adult space of living area and master bedroom; and a service area with adjoining garage and store room. Down stairs is a separate apartment for a couple. All major bedrooms face south. The children's wing has its own entrance.



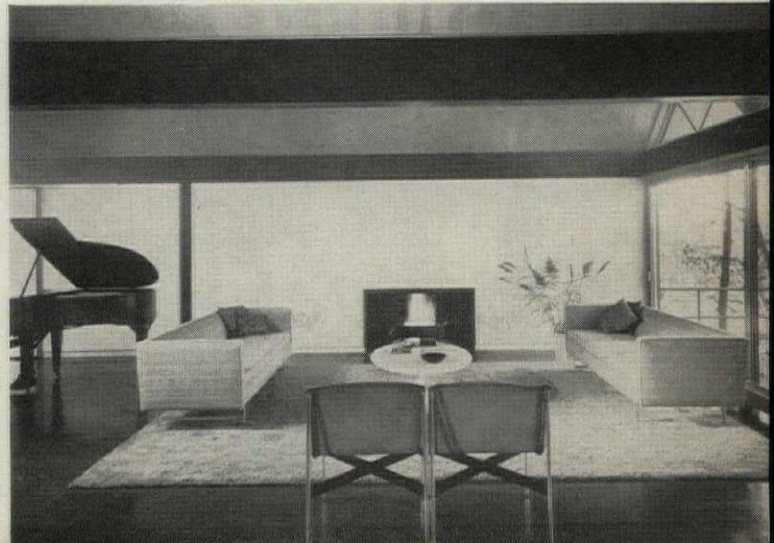
THE BASIC STRUCTURE of the house is a black laminated post-and-beam frame. Most beams are 9 ft 10 in. by 19 ft 8 in. At the peaks, beams are widened to 14 ft. Interior heights are 7 ft to bottom of beams; 8 ft 1 in. to flat ceilings; 14 ft 9 in. to peaks.

The foundations are black-green concrete block. Exterior walls are brown-stained concrete block with press siding, with carefully-fitted narrow boards to avoid shrinkage. The roofing is asphalt and gravel with white marble chips. The soffits are painted blue. Scuppers, flashing, screens and sliding window frames are aluminum. Thermal insulation is aluminum.

The interiors are kept restrained as counterfoil to the vigorous setting. Most walls are white-painted plasterboard. The peaks have oak plywood ceilings and the master bedroom has acoustic tile; other areas have plasterboard ceilings. Most floors are concrete.

EQUIPMENT in the kitchen is electric and gas. Walls are laminated plastic, cabinets are wood. An island unit creates a breakfast family dining) area. The floor is vinyl tile. A separate kitchenette adjoins the playroom.

The three bathrooms on the main level are skylighted, have marble counters. Two are finished with plastic panels. The master bathroom has ceramic tile. The hot water boiler for the heating system is in the basement; aluminum fin radiators behind special grilles are above and below big living area windows.



# SPLIT-LEVEL OPENS VISTAS IN CONFINED LOT



The cool spaciousness of this house in New Orleans' Garden District was achieved by the legitimate if unconventional use of the split level. The assignment was to fit 4500 sq ft of house onto a corner lot measuring 75 by 100 ft (62 by 60 ft after local set-back requirements had been met). The requirements of the clients—a young couple with two children, a nurse and a French poodle—could not be accommodated in a one-story house on a lot of this size; on the other hand, a two-story house would have been out of scale both for the space allotted and for the built-up neighborhood. Building part of the house 2 ft 6 in. below grade meant that three levels could be comprised in a house visually only one-story high; the single roof line adds to the illusion.

The split-level plan also allows a view from each room of one or another of the garden. From the living room and the game room, one looks across the central court, which itself functions as living space. From the master bedroom, the view is *up* to the garden through high windows, and from the children's wing the view is *down*. From the study, on the lower level, the view is up, too, here to the base of one of several large oak trees which were carefully preserved; the long narrow terrace on this side of the house (the street side) is shielded by a 7-ft wood fence, providing privacy for family outdoor meals, as well as for the kitchen and dining room. Still another garden, this one visible from the upper level: a roof garden above the carport.

The front façade of the house is rather formal, in consideration of the fact that the clients' frequent entertaining is often formal itself. The doorway, with oversized doors of undulating walnut, is embellished by bronze sculpture; this sculpture is repeated on a walnut panel in the entrance hall.

MURKIN & DAVIS AND ASSOCIATED ARCHITECTS AND ENGINEERS, ARCHITECTS  
*Valter J. Rooney, Jr., Associate in Charge*

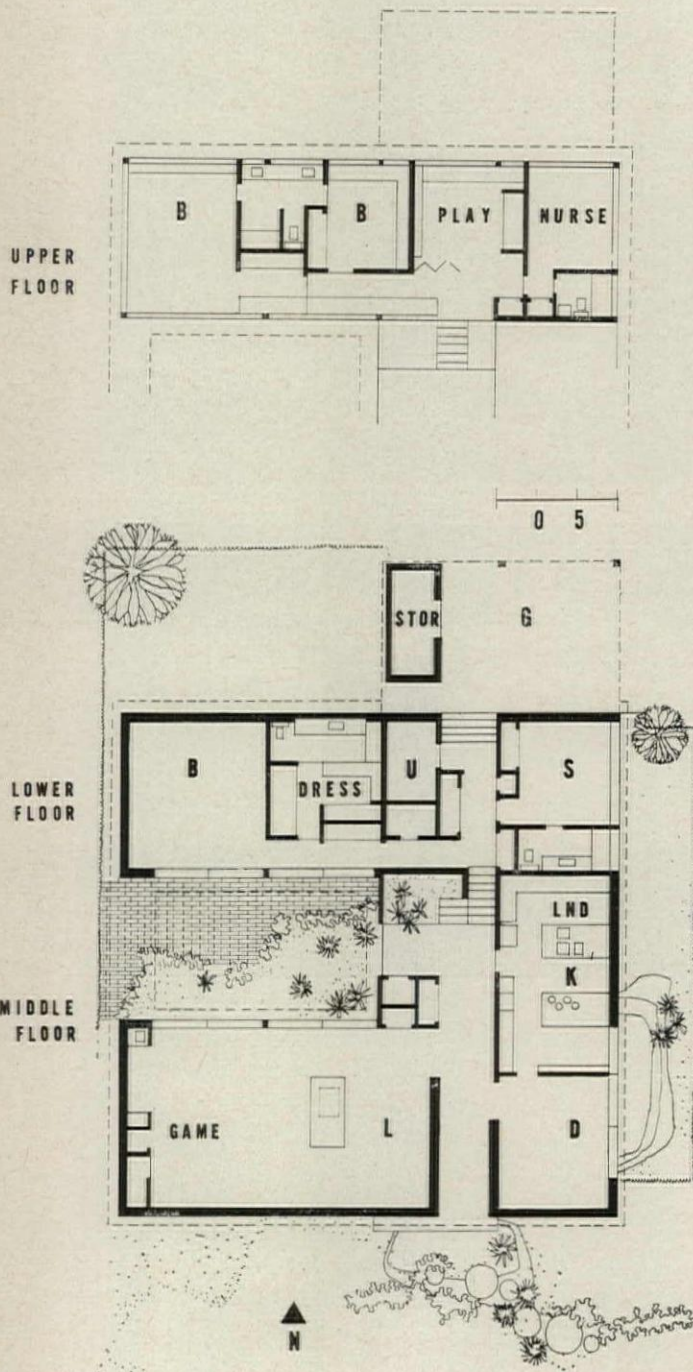
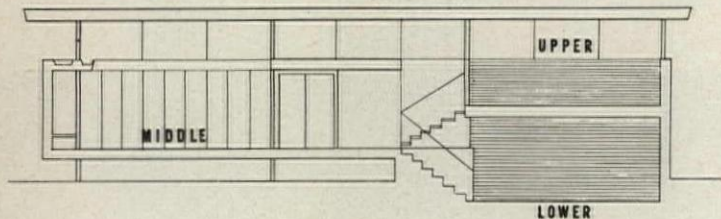
*Residence for Mr. and Mrs. Julian Steinberg  
New Orleans, Louisiana  
Guillot, Sullivan and Vogt, Engineers*

*Elsie Levinsohn, Interior Designer  
Jack B. Hastings, Sculptor  
Otis W. Sharp & Son, Inc., Contractor*



PHOTOS: FRANK LOTZ MILLER

## PLAN GIVES PRIVACY WITHIN AND WITHOUT



SPACE UTILIZATION in the Steinberg house makes the most of the split-level. Children's activities are consolidated on the upper level; the play room in this area can double as a guest room. The parents' area is also set apart, on the lower level, the quality of isolation being increased by heavy carpeting and curtains. The lower level study function when needed as a guest room also. The middle level living area is divided by a fireplace separating a large "game room" from the more formal parlor.

THE STRUCTURE, with its various levels and its single roof plane, gives the living area a 13-ft ceiling, adding considerably to its feeling of spaciousness. The frame is light weight steel and wood joists on a concrete slab. The floating quality of the entrance façade is due to the cantilevering of the middle level over concrete chain walls; it is enhanced further by the five-ft band of glass which continues all around the house above the brick walls. (This clerestory, besides admitting light, opens another vista—upward to sky and trees.)

MATERIALS on the exterior are glass and secondhand brick. Round precast concrete stepping stones lead to the entrance, and from the living room into the central patio. The ceiling inside is finished with two-inch strips of bleached cypress; interior walls are brick, plaster or undulating walnut, except in the play room and the son's bedroom where they are of cypress panels. Flooring is cork or marble where not carpeted; in the parents' area, bathroom walls as well as floor are marble, while the children's bathroom has hard plastic walls and vinyl flooring.



GRIDER & LA MARCHE, ARCHITECTS

*Builder House for Ralph Sherman, Contractor  
Sherm Perry Furniture Co., Interior Decoration*



## SMALL HOUSE OFFERS PRIVACY



PHOTOS: DEARBORN-MASSAR  
*Courtesy of LIVING FOR YOUNG HOMEMAKERS*

The gratifying abundance of amenities provided in this architect-designed builder house fulfill a number of the suggestions made at the various women's conferences on housing held during the past two years to determine what makes a good house from the householder's viewpoint.

In this house, planning was undertaken on the initial premise that adults must have their privacy. The solution was to place the children's rooms at one end, the living room and master bedroom at the other. Both of these areas are out of the house's general circulation pattern, satisfying one of the housing conferences' expressed desires for a parlor-type living room reserved for adult entertaining and safe from the depredations of rambunctious children. Since builder houses must be designed for plan variation, the living room and master bedroom can be reversed in plan if the orientation of another lot demands it.

Other examples of thoughtfulness in planning the small house: the separate entry hall, the generous storage space, the second bath, the laundry-cum-mud-room. The gravel pit in the entrance is just for fun.

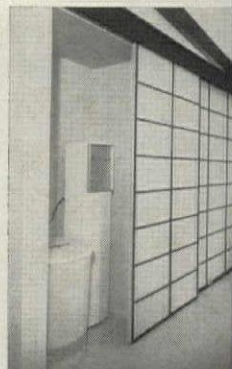
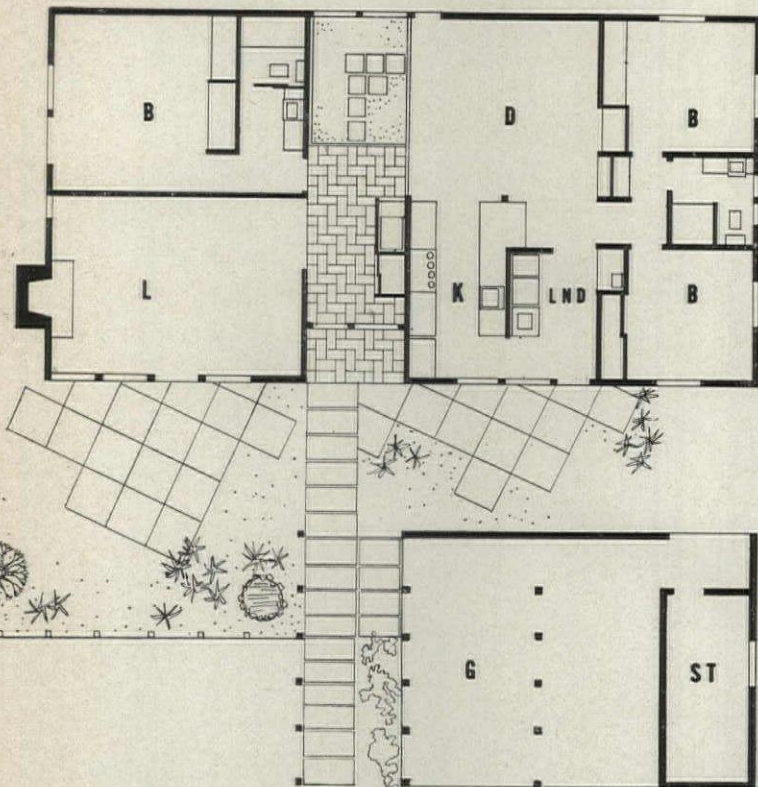
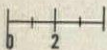
Economy was as important a requirement here as pleasure: the house was designed to sell for \$18,000 without land.



# THOUGHTFUL PLANNING PROVIDES SENSE OF SPATIAL VARIETY

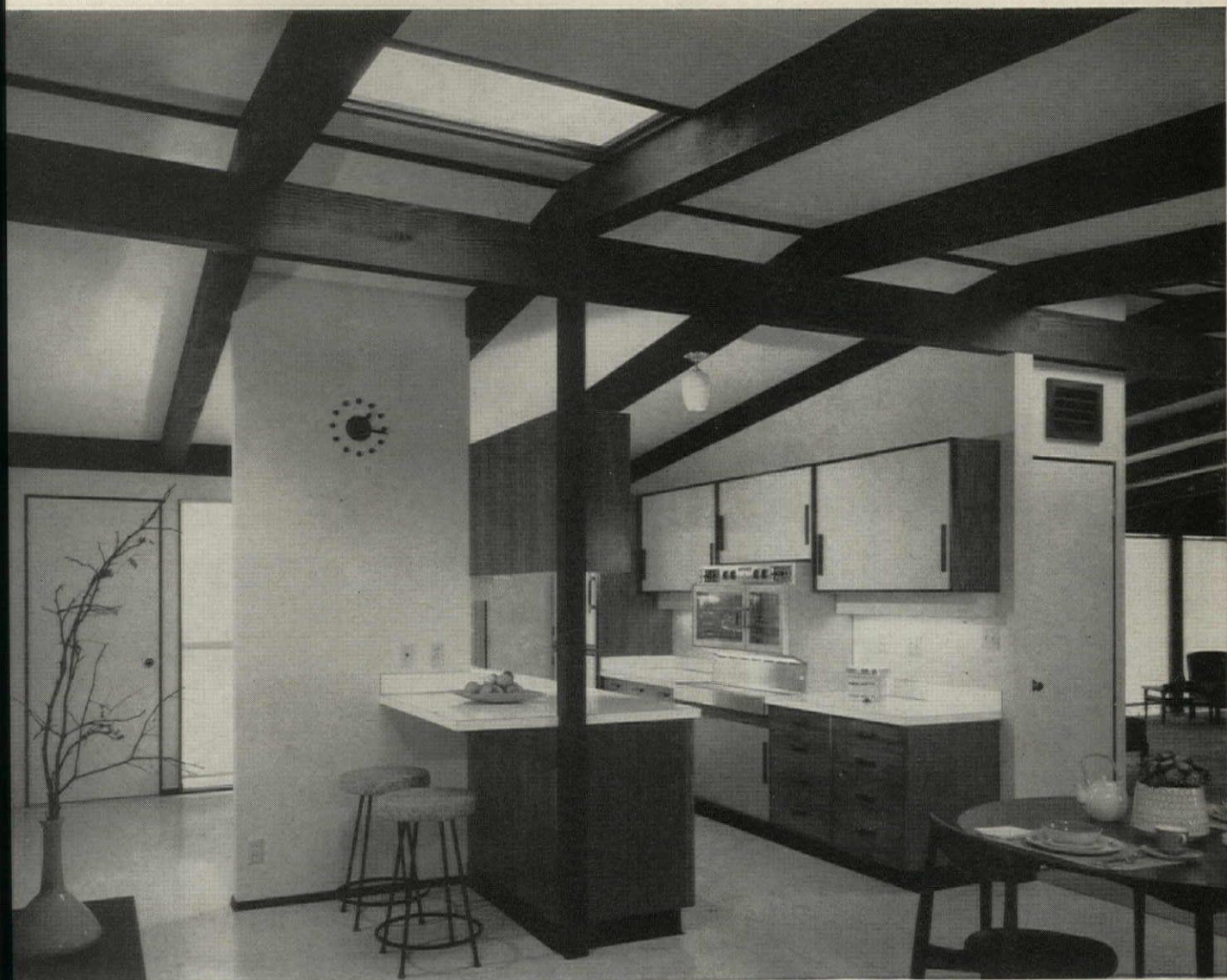
SITE PLANNING by architects Grider & Marche took account of the fact that the location offered very little in the way of views of privacy from neighbors. The house was pushed to the back of the lot, and the rear wall almost windowless (daytime illumination supplied by skylights). However, plenty of outdoor space was worked onto the lot: terrace outside the living room, surrounded by high fence; dining-play patio shielded from street by carport; and small patio outside master bedroom. Covered walkway dramatizes the entrance.

STORAGE SPACE is provided in plenty for house of this size, neatly concealed behind *shoji* (which themselves neatly complement the Japanese feeling of the exposed beams). Storage walls provide acoustical insulation between children's room and remainder of house. Photos below: top, left—shelves in dining room; top, right—utility storage; bottom, left—linen closet in children's area; bottom, right—compact unit heating system (gas-fired, warm air perimeter system). Structure is wood frame with stained cedar siding; roof is 3-in. fiberboard decking surfaced with gravel.



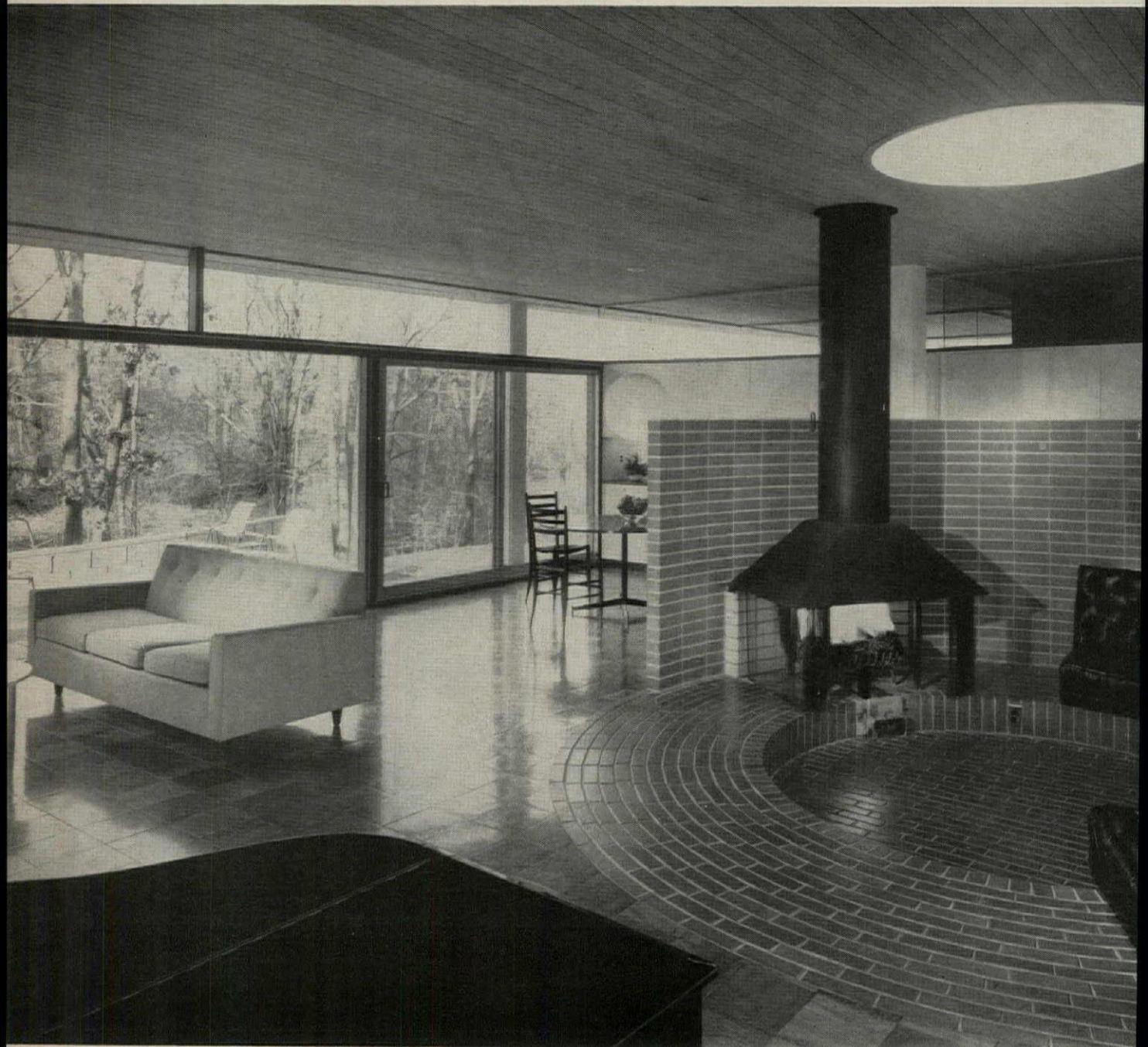
PHOTOS: DEARBORN-MASS





ULRICH FRANZEN, ARCHITECT

*Residence for Mr. and Mrs. George Weissman  
Rye, New York  
August Nelson, Contractor*





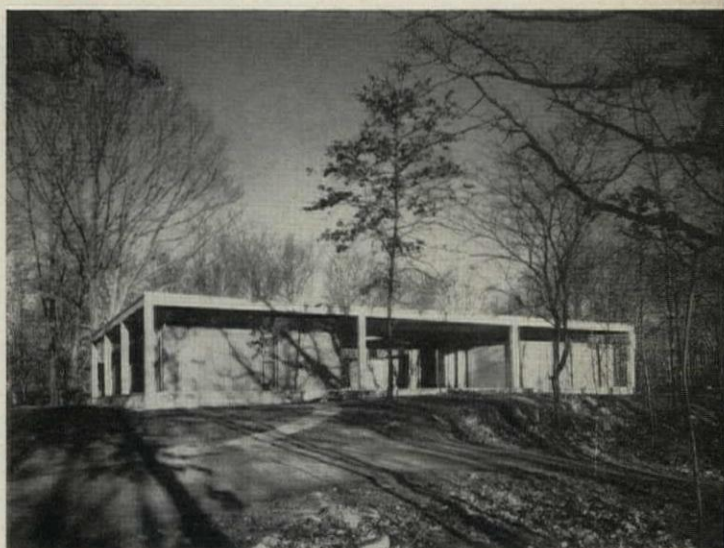
## UNITY FOR A FLEXIBLE PLAN

The orderly "neo-classic" design for this house (stemming from its structural system and balance) serves as a very dignified and unifying "package" for a fairly complicated program. The result gives a deceptively simple appearance, and strong echoes—though in a highly contemporary manner—of a white-columned Georgian mansion. The interiors also have a degree of the sense of space and ordered leisure of the traditional style in its heyday.

Among the items that were wanted (see next page for more complete plan requirements) were: openness, a minimum of maintenance, and a one-story plan. Flexibility was very important—the owners needed a house that would suit a large family at present, and be easily rearranged for just the parents in later years. It was to be fully air conditioned.

All this was successfully accomplished by using a freestanding roof structure, supported on a low platform by a continuous and welded exposed-steel frame. Low brick walls enclose the interior. Within this shell, needed rooms were set-off by free-standing partitions. No walls reach the ceiling: they emphasize the space, and are easily moved. The framing system permitted use of light steel sections, and was erected in place in one day. Costs were \$20.50 per sq ft.

PHOTOS: BEN SCHNALL



THE INTERIOR of the Weissman house places the largest part of the space into living areas. The big space is partially divided by a conversation circle around the fireplace. This area has a partially sunken brick floor, and is backed by a low brick wall, topped by a skylight. Cushions along the floor ledge provide a long curved sitting area.

Most of the partitions in the house are storage walls fitted for various uses. Thus the need for quantities of furniture is minimized, while still providing suitable places and backgrounds for all the things and mementos a family inevitably accumulates.

PLAN REQUIREMENTS included: a sleeping wing with master bedroom, two baths, three children's bedrooms; a living area providing entry, music corner, hi-fi and fireplace seating, dining area; a service wing of kitchen, a family- or play-room with dining table, laundry, maid's room, bath, service and mud-room entrance; a small basement for heating, storage. All are provided.

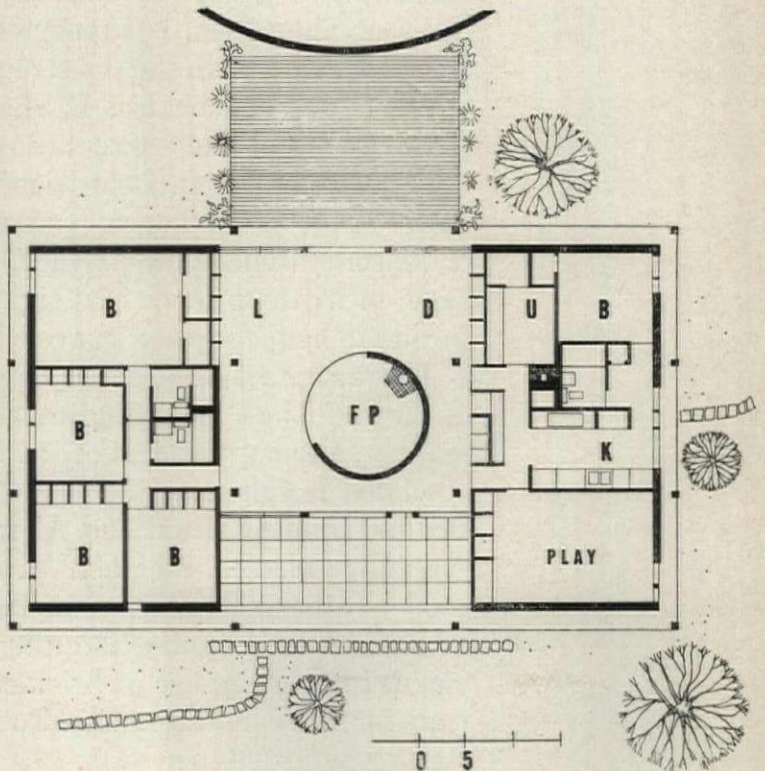
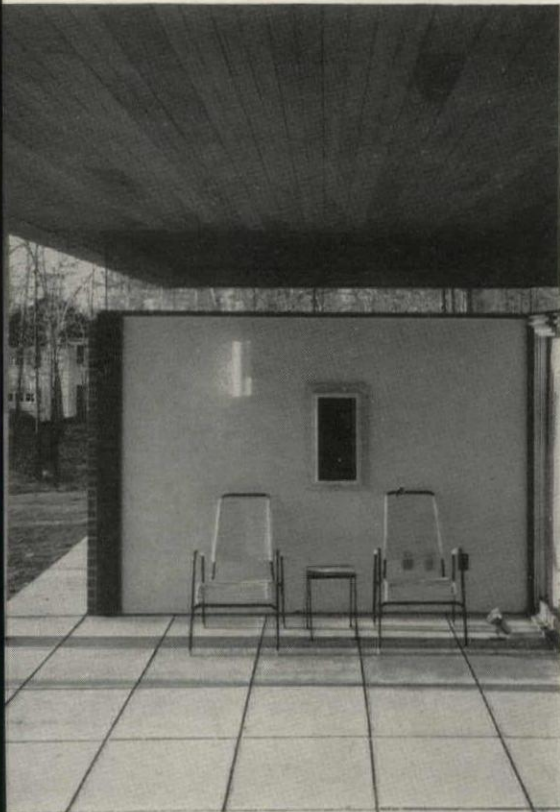
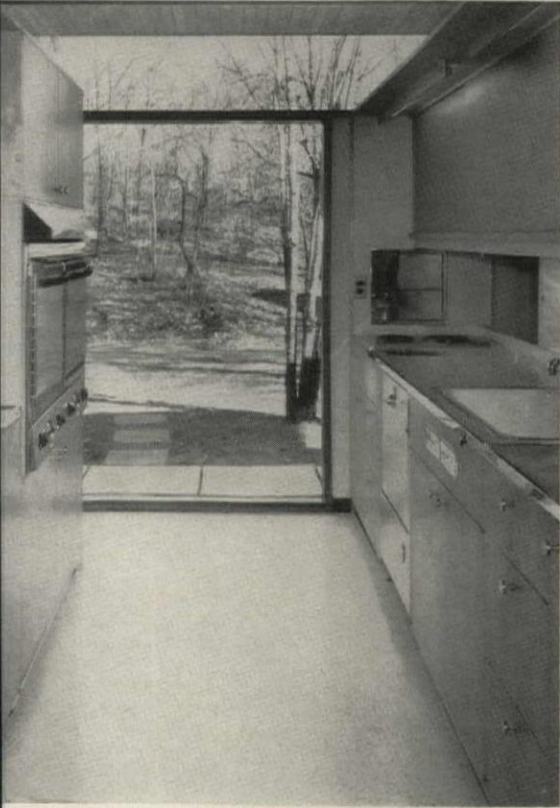
STRUCTURAL MATERIALS used in the house also, in large part, serve as decorative finishes. Foundations are concrete block, with reinforced concrete grade beams spanning column footings. The basement floor is a 3-in. concrete slab. The steel frame is painted white to stand out from the buff brick veneer exterior walls. The roof is surfaced with 4-ply tar and marble chips. The continuous ceiling is yellow cypress. Windows and sliding doors have aluminum frames.

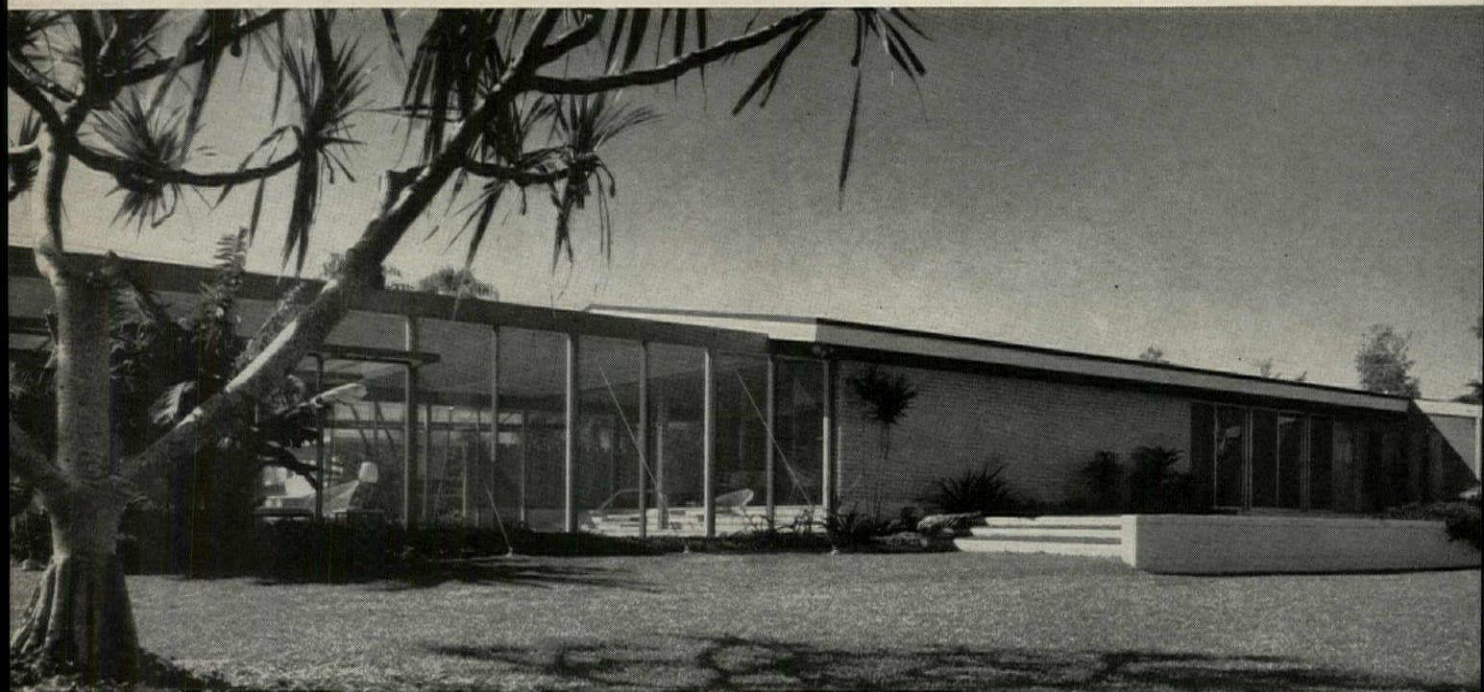
OTHER FINISHES were all selected for minimum maintenance. Laminated walnut-block flooring is in living areas, carpeting or vinyl tile in all others. Bathrooms have unglazed ceramic tile on floors, ceilings, walls. Interior walls are plasterboard or plywood. Surfaces in the kitchen are plastic or stainless steel. The warm-air heating system (in the partial basement) is reached by a trap door in the service wing.



# FLEXIBLE INTERIORS STRESS SPACIOUS CONVENIENCE

PHOTOS: BEN SCHNALL





This enormously spacious house uses the by now well-known screened-in "Florida Room" to add considerably to its living area. These "rooms" have been used in various ways, but here, its placement at the end of the living-dining spaces permits unobstructed views and access to the waterfront from all rooms. (See photo of the back of the house, above.)

A good part of the floor plan is devoted to the living area, and the study-bedroom which opens onto it by sliding shoji screens. These spaces are extended by a covered outdoor terrace, which is in turn extended by the screened-in area. The screen is supported by a simple wooden frame, with the top stretched over guy wires with turnbuckles. It shelters a large swimming pool and surrounding terraces.

Except for the entrance door (right), the entire front of the house is screened by wood or masonry fences for privacy. A double garage, with lift-up doors, is at right angles to the façade to help enclose a graveled motor court.

The architect was given complete control of the residence, including interiors and landscaping, and a great deal of the furniture was specially designed by the firm to fit the particular planning situations. All materials were carefully selected for their practicality and good weathering qualities in the Florida climate. The landscaping is quite effective and makes interesting use of brick-edged concrete pads for walks and terraces. Total cost for the house was \$14.00 per sq ft.



# A SCREENED ROOM DOUBLES SPACE

JOSEPH N. SMITH, ARCHITECT

*Residence for Mr. and Mrs. Robert Uricho, Jr.  
Miami, Florida  
Sparks Construction Company, Inc., Contractors*

PHOTOS: ALEXANDER GEORGES







## THE URICHO HOUSE INTERIORS SUIT RESORT LIVING

TERIORS throughout the house are floored with two-foot square concrete tiles, which is a basic module for the plan. Except for blue-carpeted sunken area in the living room, all floors are left bare for ease of upkeep. Furniture, doors and built-in cabinets repeat the two-foot patterns set by the floor. Besides furniture and draperies, the architect selected such items as linens and china, giving an unusual consistency of design quality throughout the house. All furniture in the living-dining area was designed by the architect except the dining chairs and the bar stools.

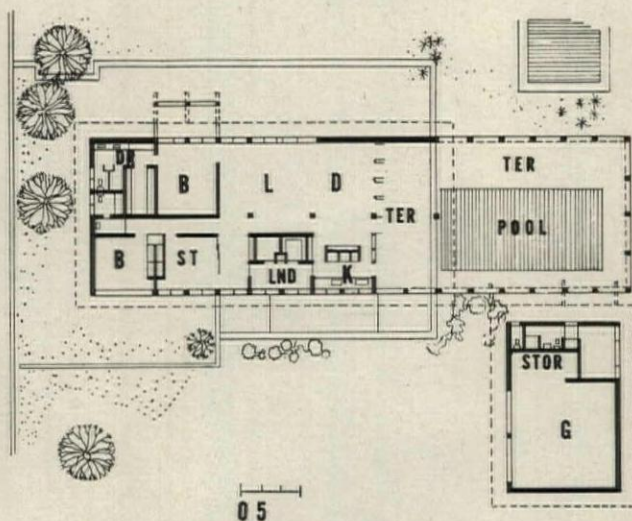
BASIC CONSTRUCTION of the house is wood post-and-beam. The site, overlooking Little River in Miami, required extensive fill. Foundations are made of concrete grade beams and precast joists on timber piles. Piling lengths ranged from 28 to 60 ft to reach bearing rock (the swimming pool was built over a quicksand area). Exterior walls are painted cement brick and block. Interiors are plaster and plywood; the plaster ceilings follow the low roof slope for added space. Roofing is built-up.

EQUIPMENT in the house includes all electric laundry and kitchen facilities, including a garbage disposer, septic tank. The entire house is air conditioned. Bathrooms are luxuriously fitted with marble counter surfaces, built-in lavatories, tile walls. The living room has special cabinets with a complete built-in sound and amusement center: TV, hi-fi, tape recorder, speakers. There is also an intercom system in the house.

Heating and cooling equipment is located in a small, central room off the laundry; sound insulation tiles line the walls. Thermal insulation used in the house is aluminum.

NET COST of the house, including garden walls, was \$60,000. This figure excludes land, furnishings, landscape, site development and pool. Site work included \$2,500 for fill, \$6,000 for piling. The pool cost \$6,500. It makes an interesting example of how the property selected can affect the cost.

THE PLAN puts all service areas on the street front, major rooms toward the river. The master bedroom is shielded by a small porch.



## PAVILION FOCUSES ON THE SEA



CRAIG ELLWOOD, DESIGNER  
*J. E. Lomax, Associate*

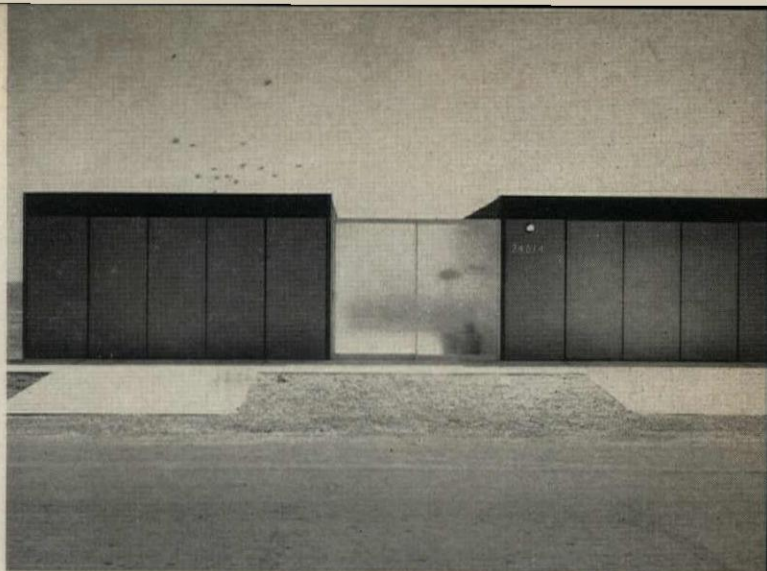
*Residence for Dr. and Mrs. Victor M. Hunt  
Malibu, California  
Roy Norvell, General Contractor*

Endowed with an enviable site, this beach house bespeaks the gayety and transitory pleasures of a holiday without giving way before them. Its formality imposes an order which insures that living will be civilized as well as casual.

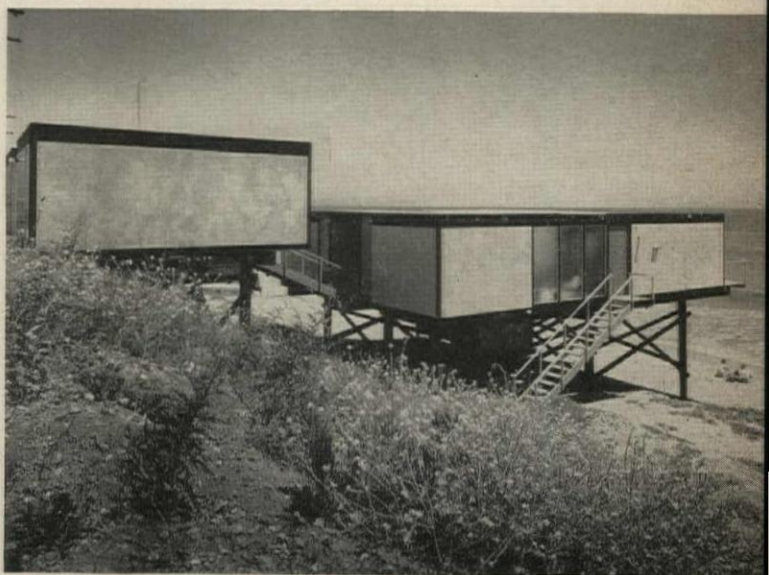
The H-plan, besides funneling the visitor into the view, provides extra deck space. The large deck is, of course, dedicated to the appreciation of the Pacific Ocean, but a second deck can be used for outdoor sitting when an onshore breeze is blowing—a normal occurrence hereabouts. The third deck is reached by stairs from the beach, and gives on to one of the bathrooms. Both decks give a bonus in the form of an ocean view from the bedrooms.

It is usual in this neighborhood for garages to be located in front of the house; this would be a natural solution for exploiting the view, and is in any event almost a necessity considering the narrow and sharply dropping site. In this case, the garage, hiding behind the façade which suggests a garden wall, has been split into two oversize units, the entryway placed between them. This is a plan adaptable to any lot with very public frontage and a view behind.

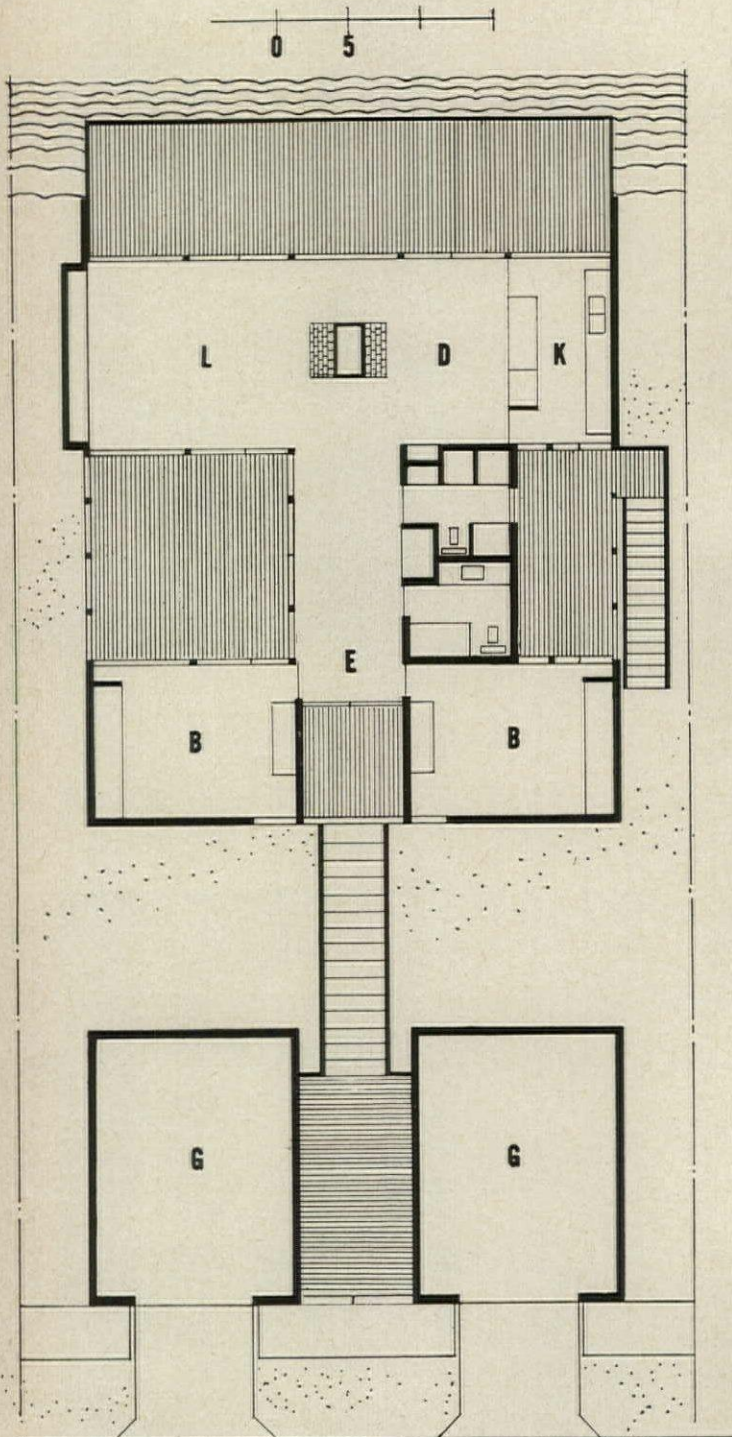
Storage space is generous for a small, moderate-cost house. The paneled wall in the living room conceals books and hi-fi equipment; speakers are behind black fabric panels at either end of the wall. The large garages also provide storage, as does a small room below the main floor, which, besides housing the heating system, stores beach furniture not in use.



PHOTOS: MARVIN RAND



UNCOMPLICATED INTERIOR IS  
AIRY AND EASY TO CLEAN



THE STRUCTURAL SYSTEM of the Hunt house is not a conventional one: 12-in. piling driven to a depth of 15 ft, capped by 12 by 14 beams spaced at a 17-ft center and braced by four by six "7" members. The original design—cap beams placed on piling slightly above sand level, with light wood trusses spanning from cap beams to floor level—would have lightened the understructure considerably, but was not approved by local building officials. To prevent corrosion, the understructure is treated with creosote preservative; all metal members and connectors are galvanized.

The construction of an expensive three-level foundation for the fireplace was saved by the substitution of steel for masonry. The fireplace rests on a concrete pad bearing on one of the cap beams. The chimney is 1/8-in. steel plate; three sides of the firebox are of clear heat-resistant glass.

Surrounding the chimney at roof level is a translucent wireglass skylight, with floorlights above, so that it becomes, at night, the main source of light in the living and dining rooms.

A patented rotary unit is placed on the chimney; by turning with the wind, it prevents downdrafts, prevalent in beach houses. Heating is by a perimeter forced air system, supplemented by electric heaters in the bedrooms.

FINISH on the exterior is natural concrete or stucco. Interior walls are plaster or natural Philippine mahogany plywood. Ceiling is Douglas fir sheathing, stained gray. Flooring is vinyl in kitchen and baths, carpeting in other areas. The use of color, except for some bright accents, is restrained—black posts and beams, white walls, beige carpeting and black or natural fabrics.



HUGH STUBBINS & ASSOCIATES, ARCHITECTS

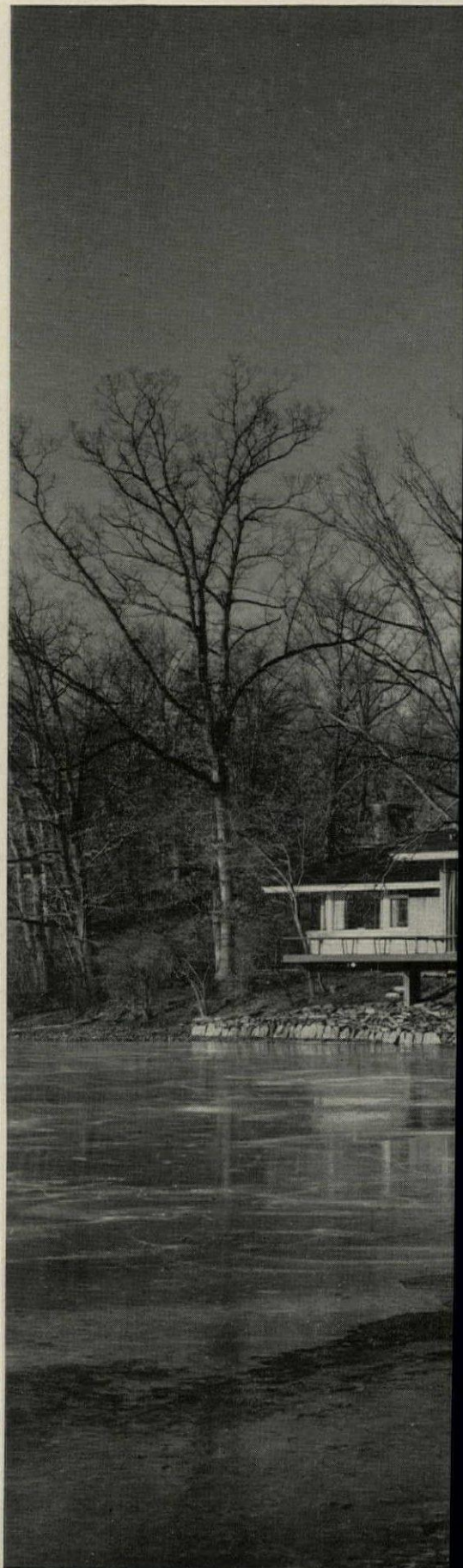
*S. T. Lo and Fletcher Ashley, Associates in charge*

*A House in Rhode Island*  
*Fred Dubin Associates, Mechanical Engineers*  
*Edward True, Structural Engineer*  
*E. Sanquist, Contractor*  
*Chambers & Moriece, Site Engineering*

## TIME-HONORED MEANS GIVE A FRESH TRADITION

The fact that "contemporary design" is not static or doctrinaire, and has many facets—which is sometimes overlooked—is quite evident in this very pleasant house.

It is a fresh, and up-to-date house, but makes generous, and relaxed use of many traditional idioms: pitched shingle roofs, wood siding and brick, interior plaster walls and simple moldings. It could be called "in a tradition," but decidedly not a traditional copy. In the architect's own words, the house "is not an attempt to explore a new structural system or to demonstrate any sensational principle of design. It is simply a spacious home based on the use of time-honored materials and designed to take full advantage of an unusual site." In this light, and in most any other, it is a highly successful house. The interiors continue the comfortable atmosphere: Chippendale and Victorian things are mingled in simple, roomy spaces. Backgrounds are warmly neutral.





PHOTOS: JOSEPH MOLITOR



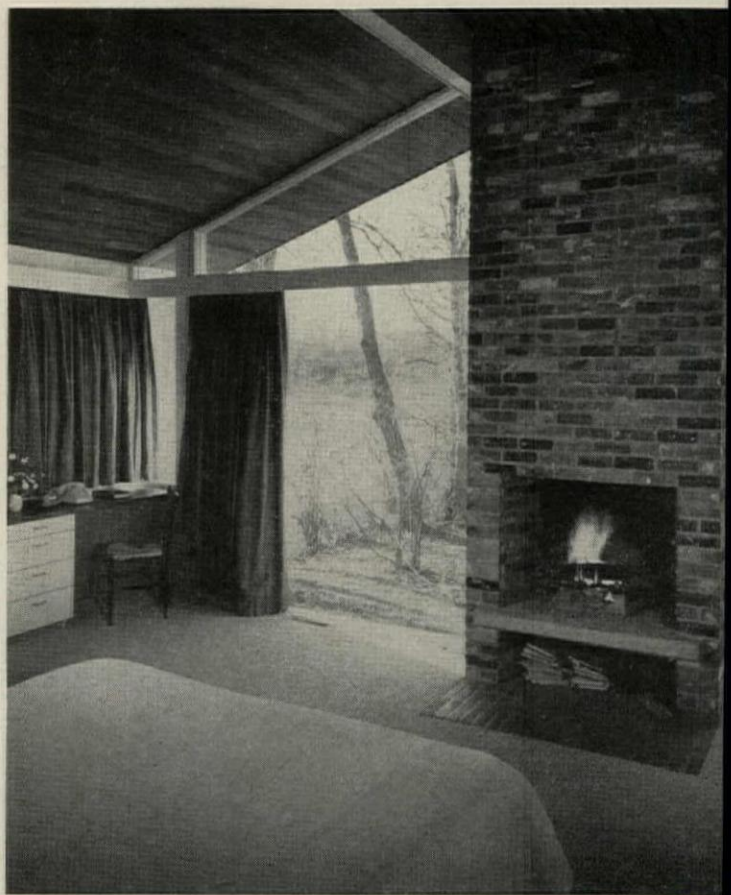
UNAFFECTED SIMPLICITY  
GIVES GREAT WARMTH ALL  
THROUGH THE HOUSE

THE SITE of this Rhode Island house is a beautiful one. The main rooms are laid along a small neck of land that runs into a lake, with the master bedroom close to the tip of a promontory, as the owner desired.

OUTDOOR LIVING areas expand main rooms on two sides: a terrace jutting over the lake, and a large "living court" to the land side.

INTERIORS are spacious, and exploit changes of land contour to create a play of levels between the living and dining areas. The fenestration in the living area is extended from floor to eave beam to dramatize the space and visually connect the outdoor areas.

EQUIPMENT in the kitchen is mainly built-in, and is handsomely set off by rich textures and finishes. Cabinets are all of walnut plywood, with counter surfaces of white laminated plastic. An unusually commodious, hooded counter has been set apart for the built-in range units. Floors are vinyl-cork.





## A T-SHAPED PLAN UNIFIES THIS MANY ROOMED HOUSE

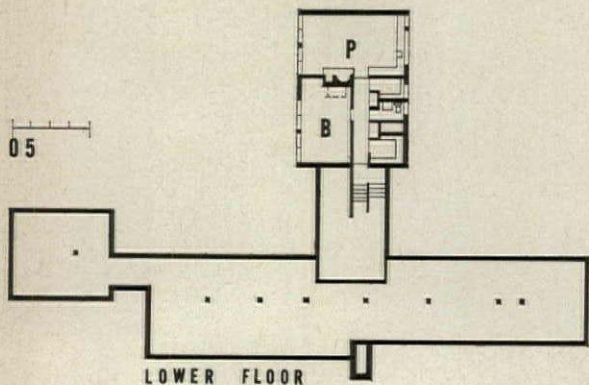
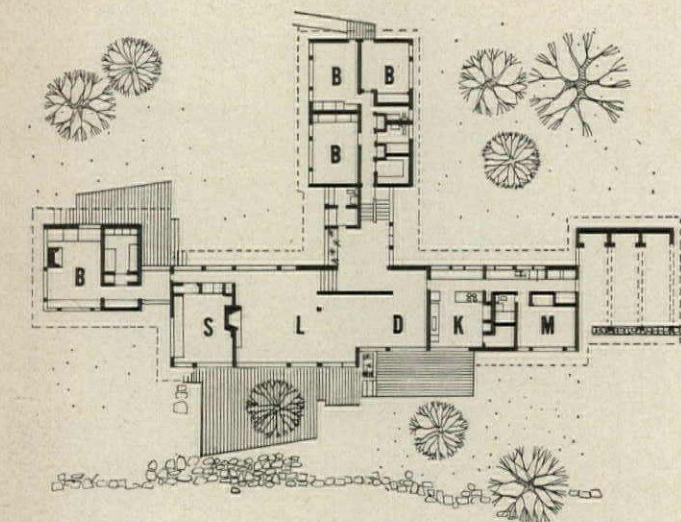
THE PLAN of the house has a children's wing set perpendicular to the main wing to form two courts, the entrance court and the living court, and also to command a good view of the small bay. This wing is arranged split-level fashion to gain a lower level with guest room, project room and extra storage. The master bedroom and an adjoining study are well removed from the children's wing for quiet and privacy. An attractive entrance court (photo top right) is formed by this wing and the service quarters.

THE HEATING SYSTEM for this spread-out plan is warm air, with oil-fired furnaces, and controlled by an electric multi-zone thermostat system. All ducts are sized large enough for future air conditioning. The master bedroom has a unit AC installed.

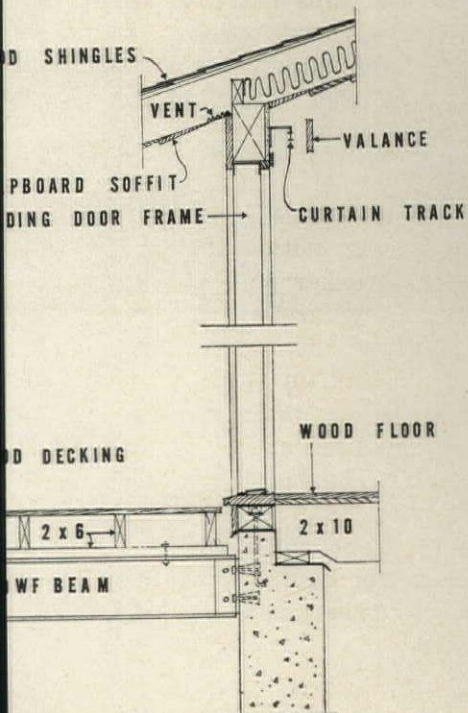
THE STRUCTURE of the house is formed of wood eave beams and posts, with a steel ridge beam. Foundations are poured concrete. Exterior walls are vertical redwood siding, treated with a bleaching stain. The roof is wood shingles. Ceilings in the living areas are 1/2-by-6-in. cedar clapboards; in other rooms the ceilings are metal lath and plaster. Interior walls are gypsum plaster.

The living areas are floored with antique oak boards, the baths with mosaic, the play-room with used brick.

THE ELECTRICAL SYSTEM for the house uses low voltage wiring, with noiseless switches, plug-in circuit breaker panels. Lighting fixtures in all living areas are recessed; in kitchen and baths the fixtures are fluorescent. A special built-in sound system combines a radio with an intercom. Kitchen and laundry equipment is mainly electric, as is the incinerator. The hot water heater is a 50-gallon oil-fired unit. The house has its own sewage system, with steel septic tanks and sewage ejector pump. It is also equipped with fire extinguishers as an added measure of protection.



PHOTOS: JOSEPH W. MOLITOR





PHOTOS: INFINITY, INC

# BUDGET HOUSE FOR A UNIVERSITY SITE

RALPH RAPSON, ARCHITECT  
DOUGLAS BAIRD, ASSOCIATE

*Residence for Professor and Mrs. W. G. Shepherd  
University Grove, St. Paul, Minnesota  
John Meyer, Consulting Engineer  
Harold Munson Co., Contractor*

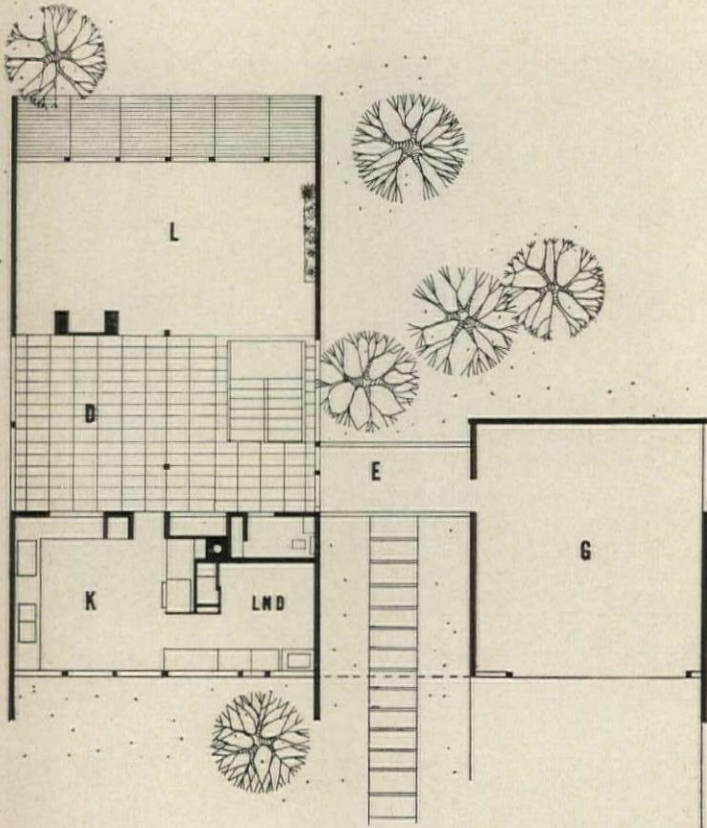


This highly attractive and well-zoned house makes the most of its site and restricted budget to give comfortable, spacious accommodation to a family of five—a University professor, his wife, and three teen-age children (two girls and one boy).

The house is located on a very pleasant tract of land developed by the University of Minnesota for faculty residences. The University leases the land to faculty members on a long term, nominal fee basis. It also finances houses for occupants at a relatively low interest rate, but requires the house not to exceed \$27,500, plus architects fees. The original owner may sell the house, but only to a University approved faculty member with the rank of Professor or Associate Professor.

The actual site for this house is about 80 by 43 ft, with an access street on the south. The land falls away to the north, with a fine view overlooking the University Golf Course. The slope was utilized to provide second-level living facilities, with direct access to the street, and full advantage of the view. Bedrooms and playrooms are below. The garage and playroom are set apart from the main house by a covered entry to help isolate noise.

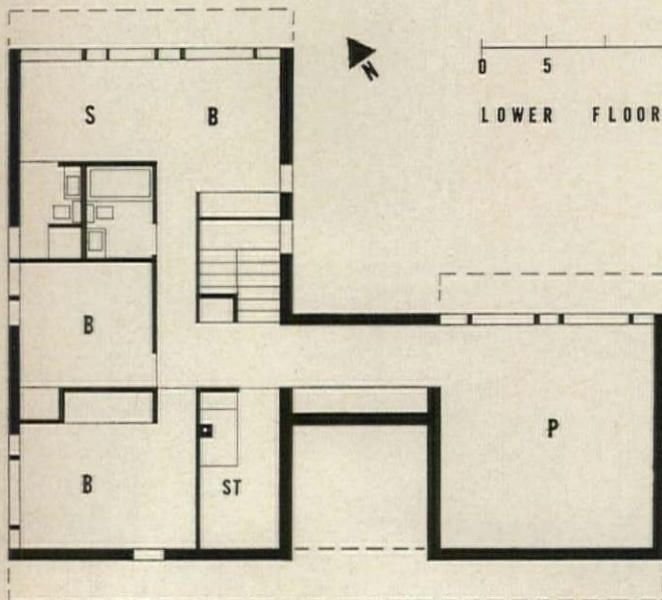
## TWO WELL ZONED LEVELS MAKE SMALL HOUSE SPACIOUS



THE PLAN of the Shepherd house packs many of the niceties usually found in larger houses into a small area: a pleasant entrance court with a view across the golf course; big, open spaces for entertaining, with convenient service; privacy for the sleeping rooms; good storage; a study area; a separate playroom and a main level powder room.

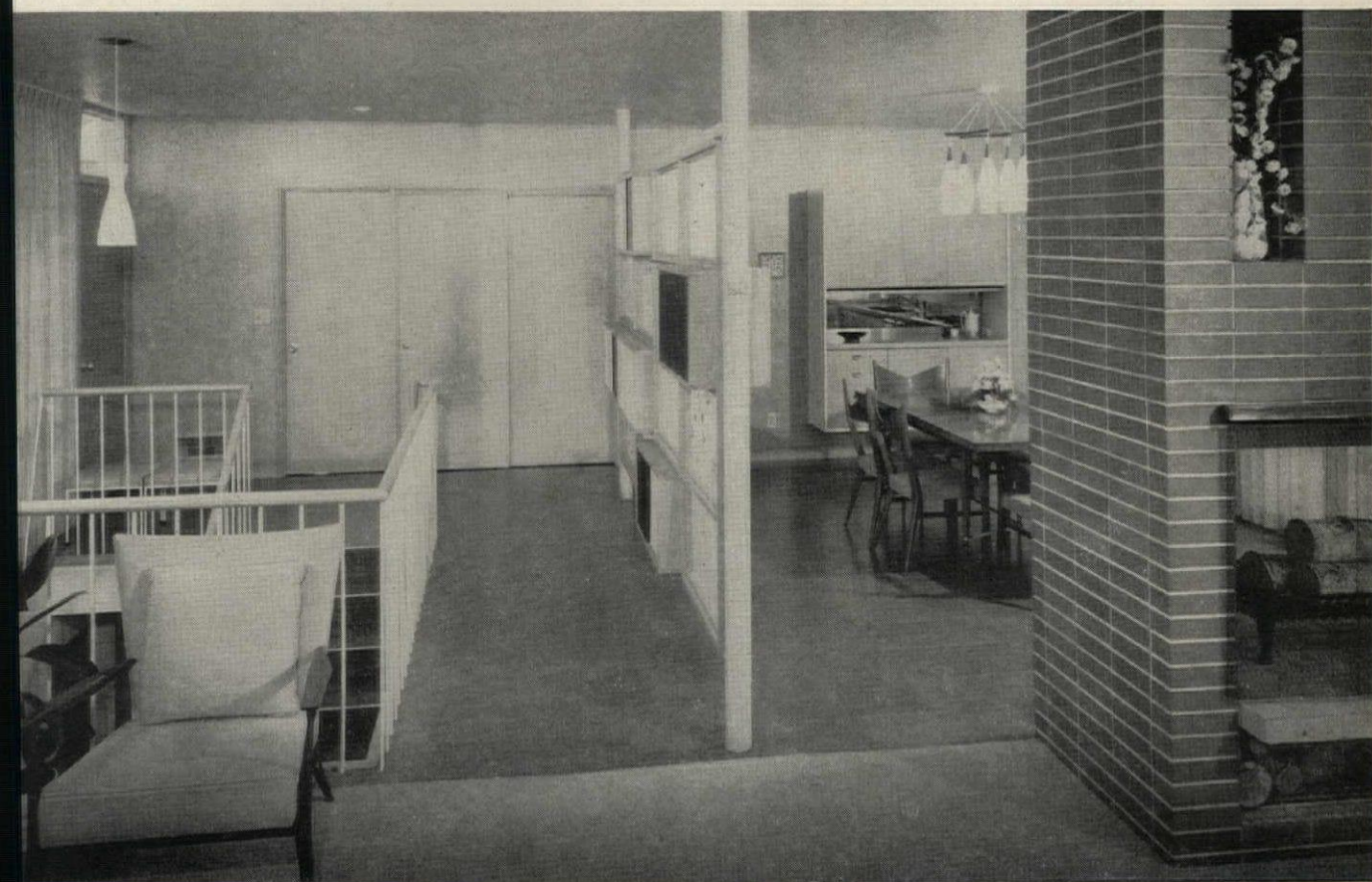
THE COST of the house was \$27,500 (exclusive of land, landscaping and professional fees). The house contains 3374 sq ft—including garage, open passage, and overhangs  $\frac{1}{2}$  area. The unit cost thus comes to \$8.17 per sq ft, a very low one for these days.

THE MATERIALS selected, and great simplicity account for much of the cost saving. The foundations and lower level are concrete block, with wood studs and joists framing the level above. Exterior walls are a painted hardboard, and interiors are surfaced with birch plywood or wallboard. Ceilings are plaster board. Floors are carpeted in the living area, and tiled with cork in the kitchen, asphalt in the playroom, vinyl-asbestos in the baths and below grade. Double glazing is used throughout.



THE HEATING SYSTEM is warm forced air set up for the addition of air conditioning at a future date. A batt-type thermal insulation was used for the house. Kitchen and baths have exhaust fans. Kitchen equipment is all electric. (Photographs courtesy of Better Homes & Gardens Home Building Ideas for 1960 in which they will appear.)







THE ARCHITECTS COLLABORATIVE,  
ARCHITECTS

*Residence for Mr. and Mrs. Carl Murchison  
Provincetown, Massachusetts  
Reardon & Turner, Engineers  
Anderson & Spinny, Inc., Contractors  
Design Research, Inc., Interior Design*

## A NEW STYLE FOR CONTEMPORARY CAPE COD

Built on a hilltop site in the midst of historic and festive Provincetown, Massachusetts, this large residence points a new direction in contemporary design that seems remarkably at home in its setting. The house also marks a subtle change of design direction for its architects, previously best known for a highly sophisticated simplicity in their work.

The sophistication, and a simplicity of concept, are still there, but interwoven with these is a strong concern with pattern, and rhythmic and bold shapes.

A Japanese temple was used as a basic motif, or inspiration. This is most apparent in the pavilion shape of the house, and the double roof: there are two roofs with the top one smaller and about 5 ft above the lower; each roof has a wide overhang, and a clerestory of glass between the two floods the interiors with indirect sunlight. The wood screens used around the house, and the dramatic canopied entrance further the oriental ambience.

The plan of the living areas also suggests the Japanese. There are no rooms in the conventional sense, but rather living spaces which blend together, and are linked by a broad gallery. The house has an architectural impressiveness not often seen today.

PHOTOS: JOSEPH W. MOLITOR

## A LINEAR MOTIF ABOUNDS INSIDE AND OUT

THE TWO LEVELS of the house use the crest of the hilltop site to give direct access to the outdoors from each floor. Principal rooms are on the upper level, to take advantage of the seaside views. The lower floor contains functional and service rooms, an office and bath for Mr. Murchison, and guest accommodations. A change in ground level at the front of the house links the motor court with the front entrance, and with the garage.

LANDSCAPING and site-planning include a terrace that spans three sides of the house and widens into a big terrace for dancing. The latter adjoins a 25- by 50-ft swimming pool and two small cabanas which have dressing rooms and laundry facilities for guests. The heating unit for the main house is also located near the pool.

ALL FURNITURE, with the exception of a few antiques, was custom designed by The Architects Collaborative and Design Research, Incorporated. As all was designed to fit the occupants, a problem was encountered with the sofa, for Mr. Murchison is tall, and Mrs. Murchison is petite. Thus, a "Murchison Sofa" was devised with a movable pillow which can be turned back as part of the back or down as part of the seat. Major rooms are banded with a lighting frieze of vertical walnut strips and plastic placed below the clerestory windows. This decorative motif becomes a device used throughout: for the stair rail, a panel over the fireplace, on the shoji screens, the emphasized divisions in the cabinets, and for the entrance and screens.

LIVING ROOMS are designed as alcoves off the broad slate-paved gallery, creating cosier retreats within the large space. The alcoves also interconnect: note how the living and dining rooms have a marble fireplace between them, but no dividing wall. Sliding concealed doors completely open or close the dining room from the gallery. A breakfast space at the end of the gallery can also serve as an expansion area for large dinner parties.

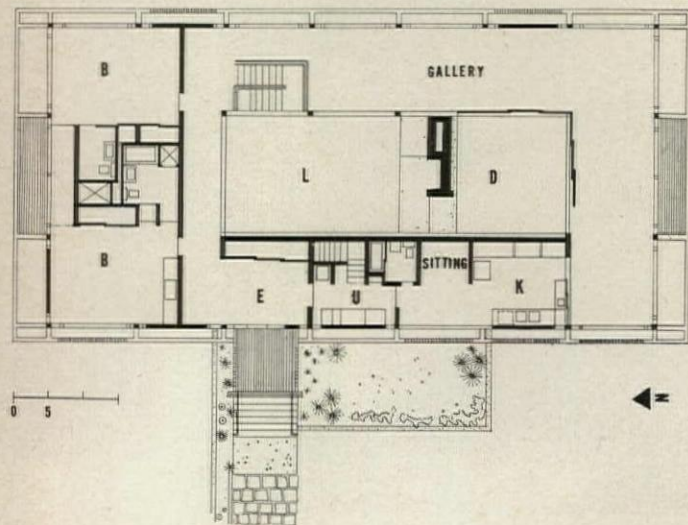
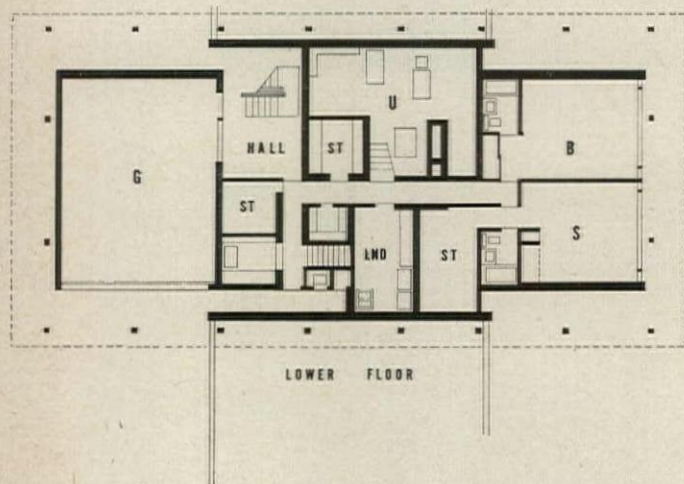
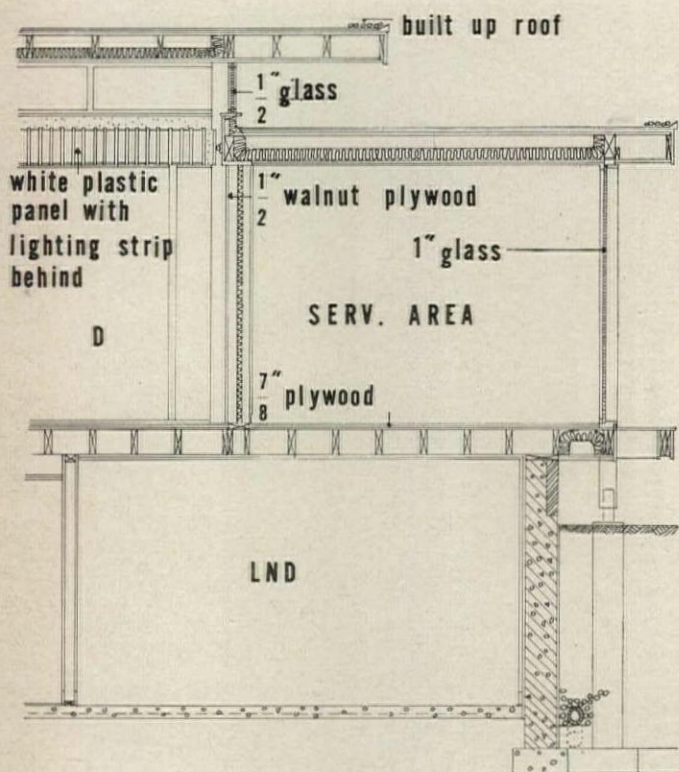
Interior finishes, as well as the spaces, are planned with an eye to ease of upkeep, as well as ease of entertaining large groups of people. Walls are teak, walnut, brick; floors are brick, slate, carpet in the "alcoves."



PHOTOS: JOSEPH W. MOLITOR



## POSTS AND BEAMS ALSO HAVE ORIENTAL RECALL



THE PLAN of the house devotes the major part of the second level to living space. A zone at one end of the house is devoted to two master bedrooms which overlook the swimming pool. Rooms ranged along the front include the entrance, which has generous storage space, kitchen, and living and dining areas for the household help. Service areas on the lower level include laundry, storage, a refrigerated cork-lined room for furs and woolens, furnace room, a four-way air conditioning system and a water softener and purifier. The lower stair hall opens on the terraces. Total cost of the house was \$300,000, with the unit cost about \$42 per sq ft.

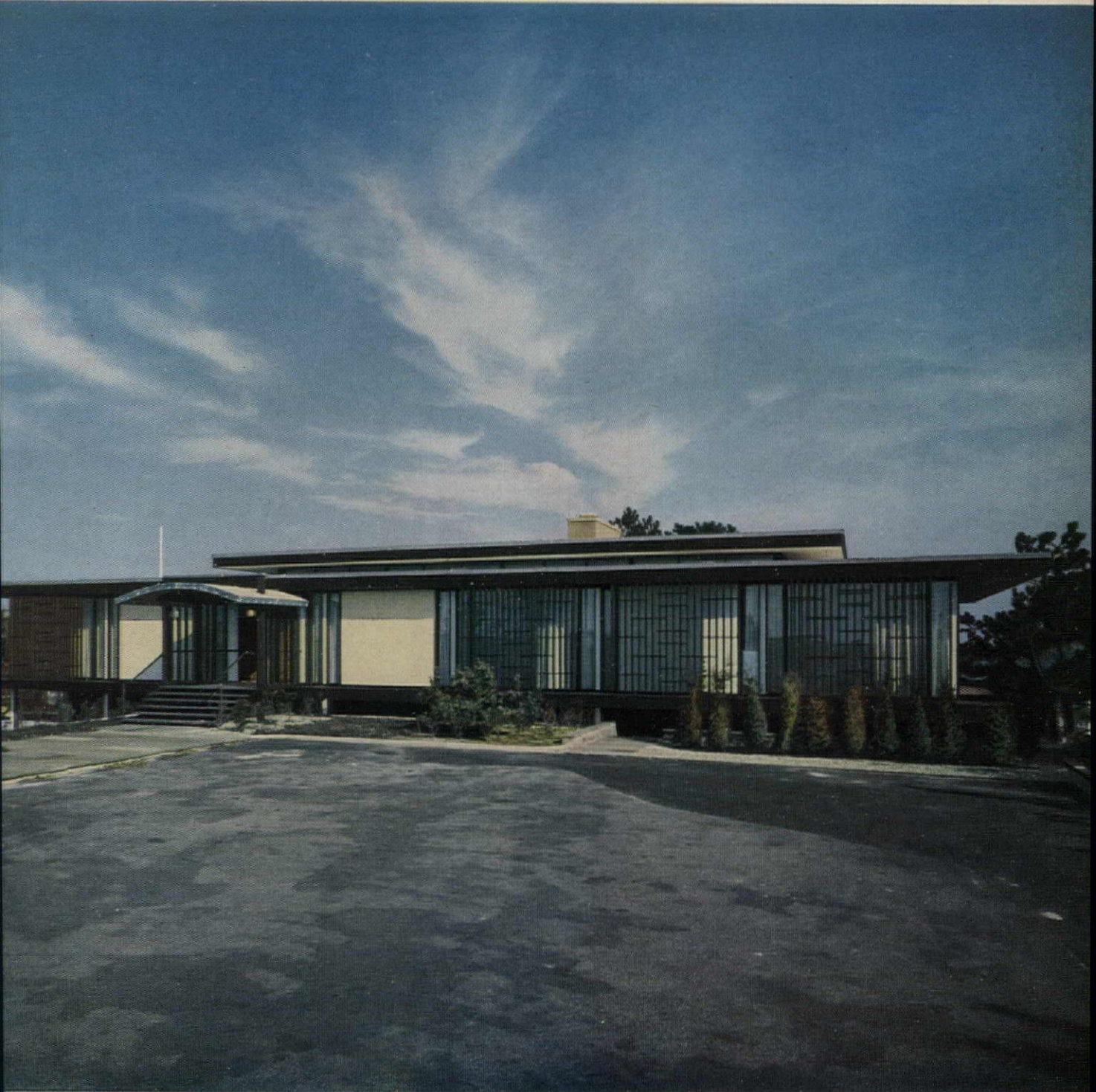
THE STRUCTURE of the house uses posts cast in cypress, concrete foundations. Exterior walls are panelled with double glass, white stucco, teakwood, cypress and brick. The screens are cypress. Most interior partitions are 1/2-in. walnut plywood on 2-by-4's. The built-up roofs are surfaced with white gravel. Apart from the slate and carpet-floored living areas, flooring consists of linoleum in the kitchen, ceramic tile in the baths, vinyl asbestos tile in rooms below grade. Ceiling throughout are metal lath and plaster. The house is well insulated: double glass is used throughout, and batt insulation is used in exterior walls and roof. The exterior sun shades are cypress.

THE EQUIPMENT for the house includes an emergency electric plant for use in the event of a local power failure; and a built-in radio and hi-fi system which can be switched on in any room in the house or at the pool area.

The heating system uses an oil-fired, cast iron boiler. Hot water is distributed to heating coils in four air conditioning units and to unit heaters by means of a two-pipe forced circulation system. Radiators are recessed finned-tube convectors. Supplementary electric heaters are used in some baths, and a unit heater in the garage. Controls are fully automatic. The water supply is connected to the town service, with an added booster pump and pneumatic tank.

Terraces around the house are made of terrazzo for the dancing area, scored concrete around the pool. Walks are cut bluestone, washed gravel or precast concrete slab. 1/4-in. plate glass fence serves as wind screen while preserving the maximum view.

PHOTOS: JOSEPH W. MOLITOR



Faint, illegible text, possibly bleed-through from the reverse side of the page.

# Designers of the Record Houses of 1959

Houses designed by the following firms and individuals appear on pages noted

A. L. AYDELOTT AND ASSOCIATES 100

2080 Peabody Avenue  
Memphis 4, Tennessee  
A. L. Aydelott, A.I.A.



EDWARD LARRABEE BARNES 120

23 East 67th Street  
New York 21, New York  
Edward Larrabee Barnes, A.I.A.



BOLTON AND BARNSTONE 80

811 Lovett  
Houston 6, Texas  
Preston M. Bolton, A.I.A.  
Howard Barnstone, A.I.A.



WILLIAM J. CONKLIN AND  
DAVIS, BRODY AND WISNIEWSKI 94

220 East 23rd Street  
New York 10, New York  
William J. Conklin  
Lewis Davis, A.I.A.  
Samuel M. Brody, A.I.A.  
Celestyn Wisniewski, A.I.A.



CURTIS AND DAVIS 124

338 Baronne Street  
New Orleans, Louisiana  
Nathaniel C. Curtis, A.I.A.  
Arthur Q. Davis, A.I.A.



RICHARD L. DORMAN AND ASSOCIATES 88

261 N. Robertson Boulevard  
Beverly Hills, California  
Richard L. Dorman



CRAIG ELLWOOD ASSOCIATES 140

220 North Barrington Avenue  
Los Angeles 49, California  
Craig Ellwood



ULRICH FRANZEN 132

124 East 40th Street  
New York 16, New York  
Ulrich Franzen, A.I.A.



GOETZ & HANSEN 116

2065 Mountain Boulevard  
Oakland 11, California  
Robert L. Goetz  
Jens H. Hansen



GRIDER AND LaMARCHE 128

205 N. Fifth Street  
Boise, Idaho  
Rodney J. Grider  
Joseph M. LaMarche



84 VICTOR A. LUNDY



Bay Front Office Building  
Gulf Stream Avenue  
and Park Place  
Sarasota, Florida  
Victor A. Lundy, A.I.A.

104 ELIOT NOYES AND ASSOCIATES



105 Main Street  
New Canaan, Connecticut  
Eliot Noyes, A.I.A.

112 GYO OBATA  
of Hellmuth, Obata and Kassabaum, Inc.



315 North Tenth Street  
St. Louis 1, Missouri  
Gyo Obata

108 ROBERT BILLSBROUGH PRICE



2907 A Street  
Tacoma 4, Washington  
Robert Billsbrough Price

150 RALPH E. RAPSON ASSOCIATES



720 Washington Avenue  
Minneapolis, Minnesota  
Ralph Rapson, A.I.A.  
Douglas Baird

76 PAUL RUDOLPH



1356 Main Street  
Sarasota, Florida  
Paul Rudolph, A.I.A.

66 JOSÉ LUIS SERT



4 Brattle Street  
Cambridge 38, Massachusetts  
José Luis Sert, A.I.A.

136 JOSEPH N. SMITH



808 Olympia Building  
Miami 32, Florida  
Joseph N. Smith

144 HUGH STUBBINS AND ASSOCIATES INC.



806 Massachusetts Avenue  
Cambridge 39, Massachusetts  
Hugh Stubbins, A.I.A.

154 THE ARCHITECTS COLLABORATIVE



63 Brattle Street  
Cambridge 38, Massachusetts  
Jean B. Fletcher, A.I.A.  
Norman Fletcher, A.I.A.  
Walter Gropius, F.A.S.A.  
John C. Harkness, A.I.A.  
Sarah P. Harkness, A.I.A.  
Benjamin Thompson  
Robert S. McMillan  
Louis A. McMillan





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*Photo by Hedrich-Blessing, courtesy United States Gypsum Company*

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BRUCE UNIT-WOOD BLOCKS



BRUCE FIRESIDE PLANK



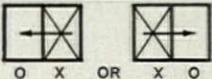
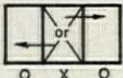
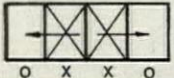
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*Stops* **WATER!**



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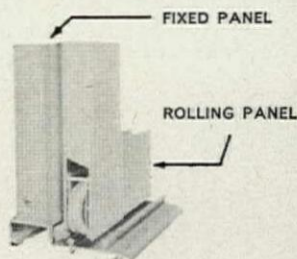
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P. O. Box 4745, Atlanta 2, Georgia

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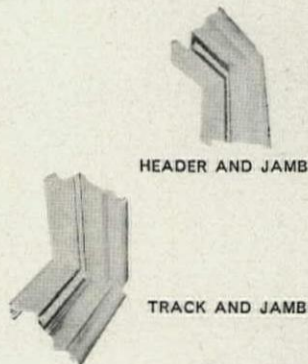
**POSITIVE CONTACT AT THE TRACK**

Continuous heavy Schlegel wool pile forms snug seal against wind and water. Pile is silicone-treated for endurance. Design of track creates gravity-barrier against penetration.



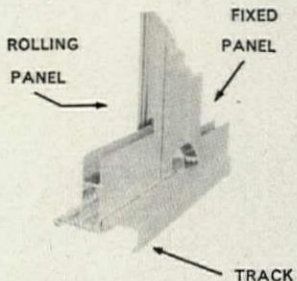
**POSITIVE CONTACT AT THE CORNERS**

Heavy Schlegel wool pile meets and overlaps at critical points such as upper corner (upper photo) and lower corner (lower photo). Pile is silicone-treated, aluminum-backed.



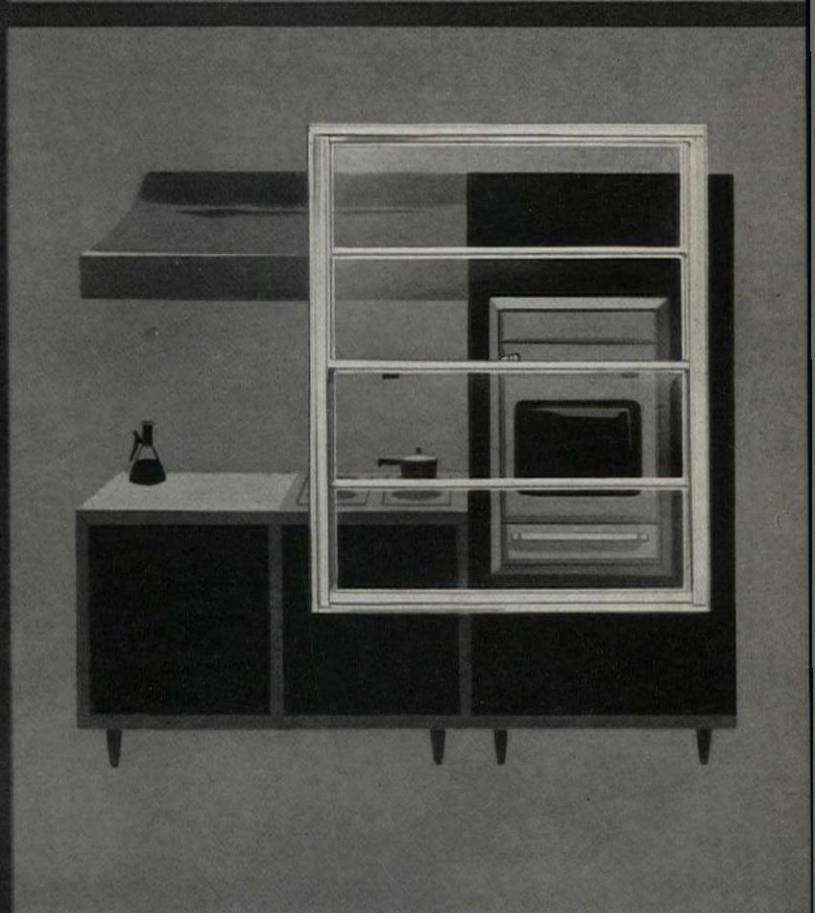
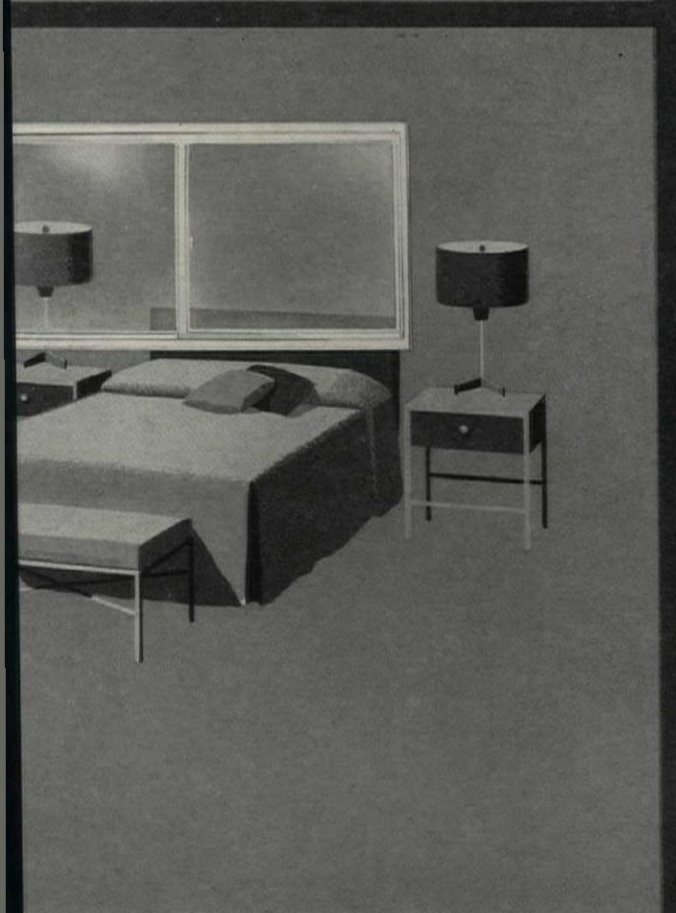
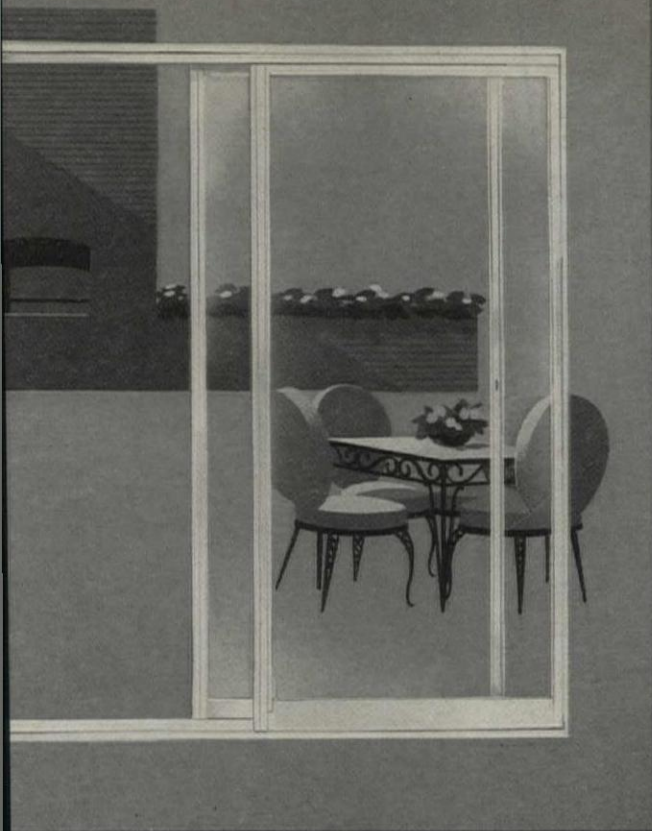
**POSITIVE CONTACT AT THE INTERLOCK**

Slender but double-rigid interlock stiles double-lock against continuous vertical heavy pile. Note that fixed interlock forms all-points contact, including corners, with silicone-treated wool pile of moving interlock.



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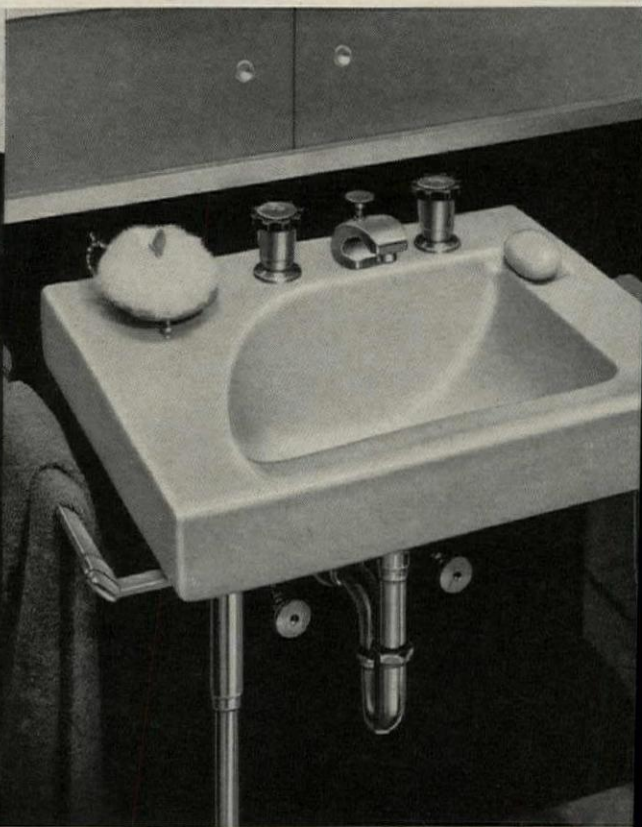
The new shape of the Contour bathtub provides many features, including more room where needed, two wide ledges, narrow rim that makes it easier to enter and leave, new cleaning ease. Enameled cast iron in six colors and white.



For amazing ease of cleaning floor and fixture, specify the new Norwall toilet. Installs easily on 6" stud wall. Floor cleaned with swish of a mop. Seat and cover snap off for easy cleaning. China in eight colors and white.



For extra storage and counter-top space, see the Gracelyn cabinet-lavatory. One-piece china top has no dirt-catching seams; comes in eight colors and white. Wood cabinet in neutral beige has twin doors. Three lengths, two heights.



Asymmetric design of the new Sherrilyn lavatory provides roomy bowl plus wide ledge for counter-top convenience—handy for toiletries. Measures only 24" x 20". Vitreous china in eight colors and white.

American-Standard designs four new fixtures to complement your

# HOMES

**As an architect creates** new designs for homes, he keeps in mind long life, utility and esthetic appeal, as well as cost. These same principles guide American-Standard in making plumbing fixtures for the homes you design.

**Your professional eye** will see the extras in American-Standard fixtures. For example, the off-center design of the Contour bath and the Sherrilyn lavatory complement each other and both provide extra shelf space for toiletries and personal articles. The straight front of the Contour bathtub makes floor tiling easy.

**The simple, contemporary styling** of American-Standard fixtures is one of the things most appreciated by a home designer. It helps him plan bathrooms and powder rooms that are beautiful, pleasing to use and blend well with any type of home.

**Examine these four** newly designed products. Discover how right they will be in the homes on your board now.

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## AMERICAN-Standard

PLUMBING AND HEATING DIVISION

## Warm Air Heating Systems

Continued from page 21

urements will not exceed 1 degree for each 15 degrees difference between indoor and outdoor temperatures. During summer air temperature measured in the same fashion will not exceed 3 degrees for each 10 degrees difference between indoor and outdoor temperatures.

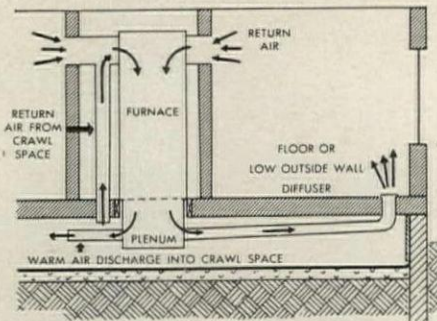
**Filtered Air**—Through the use of filters, filtered air will be delivered to all rooms.

**Humidified Air**—Through the use of a humidifier during the winter, humidity can be added to all rooms.

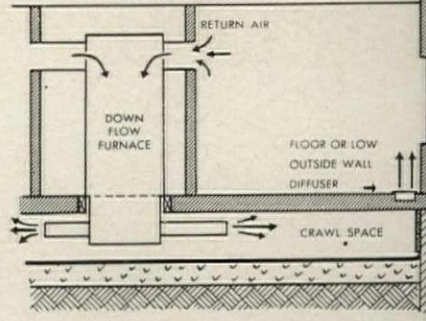
**Dehumidified Air**—The air conditioning unit is capable of reducing the relative humidity in the structure to 50 per cent or less, provided the structure is properly moisture-proofed, and there are no major sources of intermittent moisture release within the structure.

Questions to ask the heating dealer or dealer-contractor should include the following: 1. Is there a guarantee on the system by both the builder and the heating dealer? 2. Will he give you the names of people to telephone to check on his reliability? 3. What kind of service warranty will he provide, including adjustment of the system, and what will it cost? 4. Does he know how to figure heat loss according to such a nationally recognized and accepted method as that of manuals of the National Warm Air Heating and Air Conditioning Association? This is also true for cooling when heat gain must be calculated. 5. Is he putting a warm air duct under every window and sufficient returns on the inside walls? How did he determine duct and register location? Association manuals can tell him, but did he use them? 6. Putting in summer air conditioning may be the farthest thing away from a person's mind today but experience shows that the same families change their thinking within three to five years. Can it be installed easily and is the ducting planned to handle summer cooling? 7. Because the heating/cooling system is a lot of things beside the furnace unit, extreme consideration should be given to the controls. Is the thermostat on an inside wall, away from a register, door drafts, kitchen heat, lamps and TV sets? And does your house need a zone control system? 8. Does the house have insulation? It's the cheapest investment in dollars the home owner will make over the life of the house. 9. Are the doors and windows weatherstripped and are storm windows available?

Recently another step has been taken for the protection and improvement of America's homes.



Two typical methods of warm air heating for small homes are shown above: left, ducts carry air to diffusers, a small amount



heats crawl space; right, the crawl space itself serves as a plenum or duct, gives warm floors, heated room air

Objectives of the billion dollar a year heating and cooling industry are to forge a chain of standards, backed up with guarantees, to give the nation's consumers year-round indoor comfort.

A most recent development is a new certification program supported by nearly every major manufacturer of domestic cooling equipment.

Thus, today, four major programs for the benefit of the home owner are making a massive effort to upgrade heating and cooling in the nation's residential dwelling. They are:

**SILVER SHIELD** program of the National Warm Air Heating and Air Conditioning Association. This program, now being established throughout the nation on the community level, starts with the consumer, placing responsibility on the local dealer-contractors who install the system.

**UNITARY CERTIFICATION** of central cooling equipment, a combined effort of the Air-Conditioning and Refrigeration Institute and National Warm Air Heating and Air Conditioning Association. This program establishes standards for central cooling equipment with the Btu as the basic unit of measurement. This program does not include window cooling units, heat pumps or mammoth industrial air conditioners.

**GAS FURNACE** industry has tested and certified its equipment for nearly 30 years. The Blue Star label of the American Gas Association is the consumers protection that the equipment is safe and efficient.

**OIL FURNACES** are tested separately, for safety and performance. The UL Label (Underwriters Laboratory) is the home owners guarantee that the unit meets safety requirements. Basis for performance is CS-195, a commercial standard issued by the United States Department of Commerce. This standard is the result of joint activity of the Oil Heat Institute and the National Warm Air Heating and Air Conditioning Association.

Basic elements of the Silver Shield program, according to the national association, consist of the following key requirements:

**LOCAL DEALERS** form an organization for the mutual policing and promotion of Silver Shield Systems, called an Indoor Comfort Bureau. This organization is licensed to operate the Silver Shield program by the National Warm Air Heating and Air Conditioning Association.

**EDUCATIONAL PROGRAM**, including newspaper ads, direct mail, radio and TV announcements and point-of-consumer contact is started on a continuing basis with the cost shared by all members.

**DEALERS, SELLING A SILVER SHIELD SYSTEM**, either for a new home or as a remodeling job, must complete a set of forms that includes a plan and layout of the ducting, furnace location, controls and other essential elements. Design and layout must be made in accordance with specifications established by National Warm Air Heating and Air Conditioning Association.

**PLANS AND SPECIFICATIONS** are submitted to the Indoor Comfort Bureau where they are reviewed by an engineer.

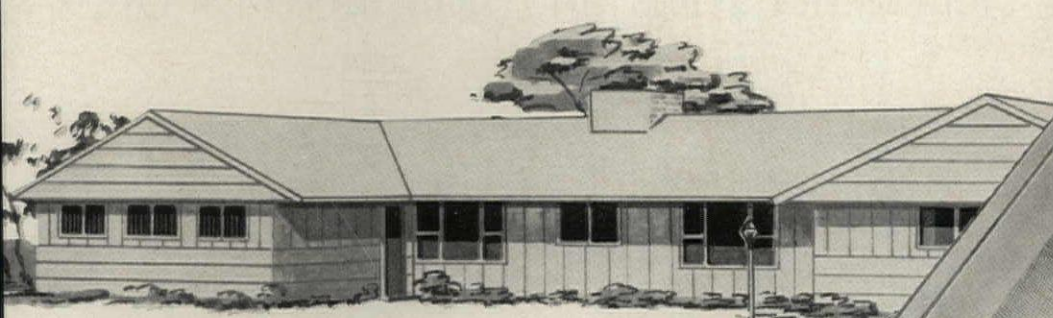
**UPON APPROVAL OF THE PLANS** the dealer then proceeds to install the heating/cooling system.

**AFTER INSTALLATION OF THE SYSTEM** it is inspected to see that it conforms with the approved design and layout.

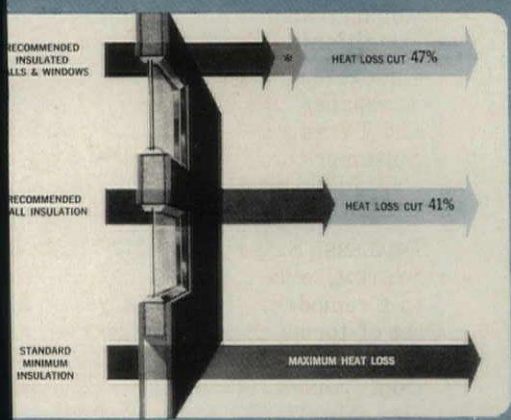
If it passes inspection it means that the system meets Silver Shield standards and a label is placed indicating acceptance. If a system has defects, they must be corrected, before the Silver Shield label is attached.

This procedure assures home owners that they can positively depend on the quality of the engineering and craftsmanship used in making their homes comfortable in winter-summer.

Get FULL INSULATION For Your Homes...

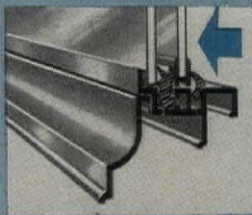


**TM** INSULATED WINDOWS



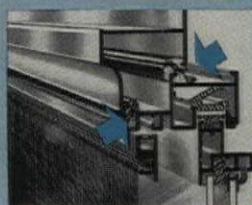
*Relative Heat Loss Measured in BTU's*  
**CUT HEAT LOSS BY 47%**

enormous savings in BTU heat loss is effected through recommended insulated walls and Textron Metals insulated windows. Insulating both the wall and the window area means greater homeowners' comfort and savings.



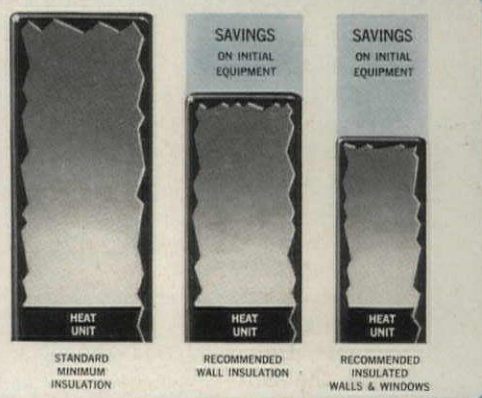
**DOUBLE GLAZING**

The remarkable built-in TM double glazing is the economical, practical way to create window insulating efficiency. Simple to replace and reglaze with regular single or double strength glass.



**INSULATED FRAME**

Frame section of TM window is constructed with unique two-piece design, each separated from other. This break in thermal conductivity creates true insulation, provides protection against condensation.



*When Income Requirements are Reduced*  
**MORE BUYERS BECOME ELIGIBLE**

The use of Textron Metals double glazed windows and wall insulation increases the potential buyer market. Lending institutions lower the effective monthly income requirement of mortgagors as the monthly housing expense is reduced.

\*Textron Metals windows reduce air infiltration providing an additional savings of 11% when family requirements will permit. This reduction of air infiltration through windows also permits the use of filtered air intake without increasing operating costs above normal.

*Heating Systems can be Smaller*  
**HEATING UNIT COST REDUCED 11%**  
The combination of recommended wall insulation and Textron Metals insulated windows can mean smaller heating and cooling units. In the heating unit alone, the builder can save as much as 11% on the initial installed cost. When cooling equipment is included, savings as high as 24% can be achieved.

**INTERIOR METAL CASING OPTIONAL**

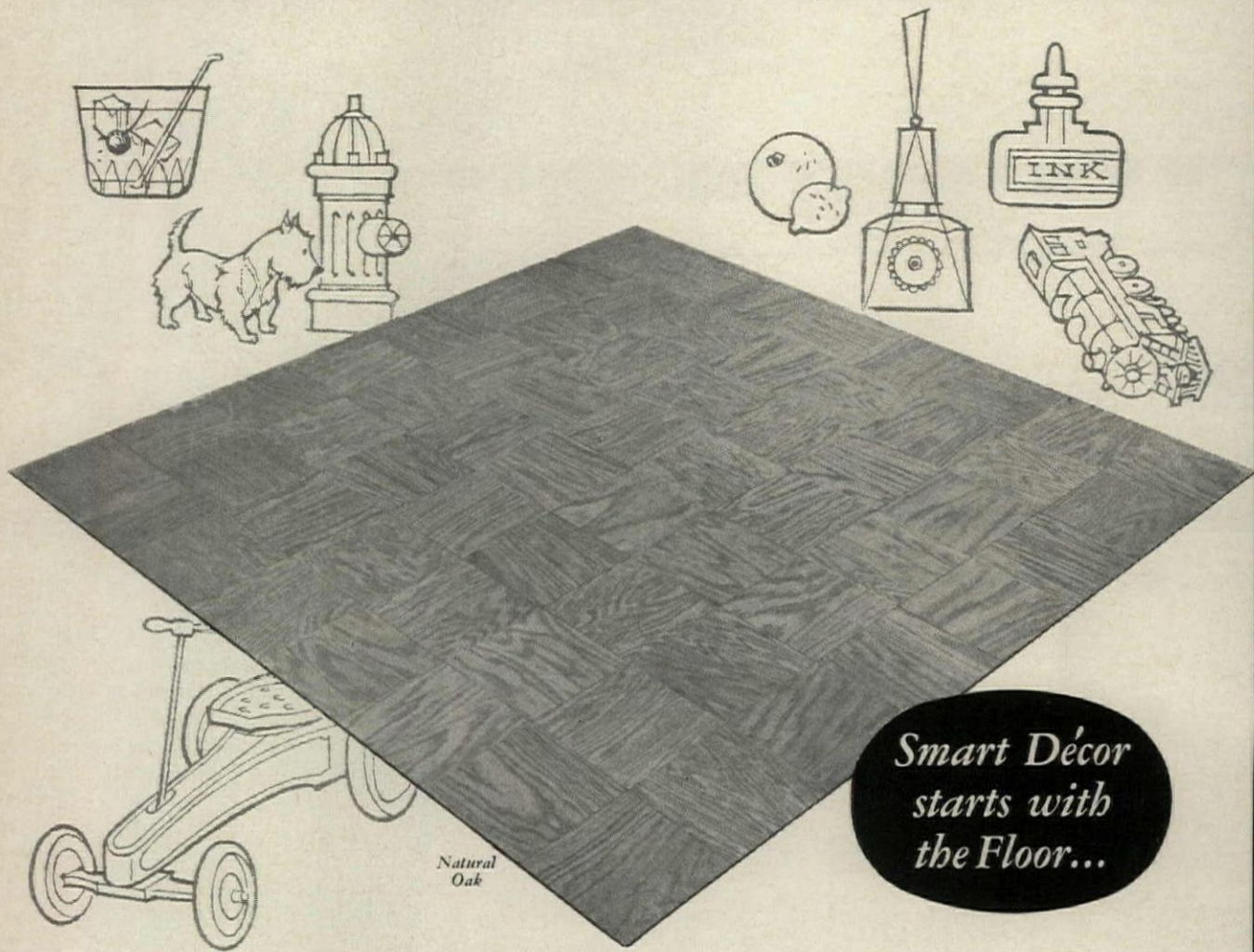
Interior casings (illustrated above) are available to accommodate various types of wall construction. Ask your Textron Metals representatives for more information.



**TEXTRON METALS Company**  
39 James St., Girard, Ohio

# NEWS *for Architects...*

Hardwood Floors that *scuffs* and *spills* won't SPOIL!\*



Natural Oak

*Smart Décor starts with the Floor...*

... And Wood-Mosaic Laminated Block Floors cost no more than ordinary floors

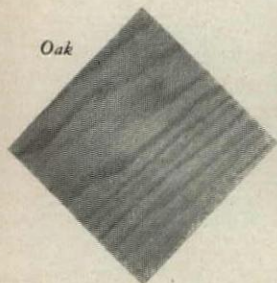
*\*\*"DIAMOND LUSTRE" Finish: A Wood-Mosaic Exclusive*

*for HER*—beautiful hardwood block floors that *stay* beautiful and are easy to care for—always a point of pride. Available in unlimited patterns and combinations of woods.

*for HIM*—a luxury floor at less cost than an ordinary floor with a finish that provides 3 to 4 times greater wear resistance than regular lacquer finishes.

*for YOU*—hardwood floors with character that you can specify with the *sure knowledge* that they will stay beautiful and wear longer than ordinary floors. See our catalog in Sweets.

*Send for literature to Wood-Mosaic Corporation, Dept. G-5, Louisville 9, Kentucky.*



Oak



Walnut

**Wood-Mosaic**

BLOCK FLOORS



Hard Maple



Cherry

The only Laminated Hardwood Block Floors available in four different woods.



*CALIFORNIA REDWOOD is unique in its almost infinite variety of pattern and texture...in versatility of use, inside and out...in combining natural beauty with low maintenance.*



*All the wonderful warmth of wood... forever yours in redwood.*

# Hot Water Heating

Continued from page 24

system may be used in a slab or in black-top surfacing, whichever is preferred. Since the liquid circulated through the system is an anti-freeze solution, pipes cannot burst. As long as they are buried a minimum of two inches below the surface, the pipes will be safe from excessive weight and should last easily the lifetime of the house.

The complex framework of budget, code restrictions, client preferences, mechanical and structural problems within which an architect must work often call for extreme resourcefulness.

The problem of providing true indoor comfort is with him at the very start, and it is with him at the end, even after the client has moved into his new home. Such things as orientation, glass areas, shade and degree days all have a bearing on the comfort problem, but so also does the heating system, the choice of which often rests entirely with the architect. What governs his choice, other than the cost of the house, comparative installation and operating costs of heating system—and the client's own experience with heating.

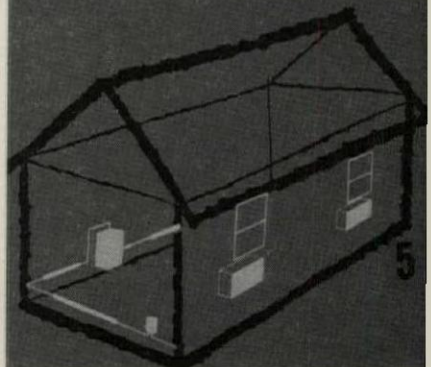
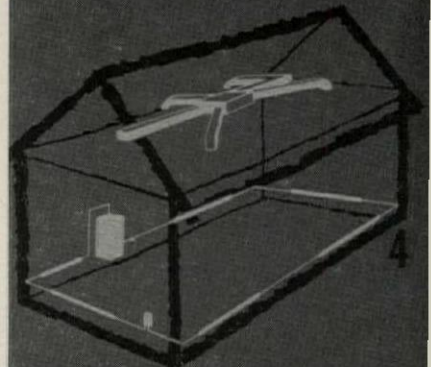
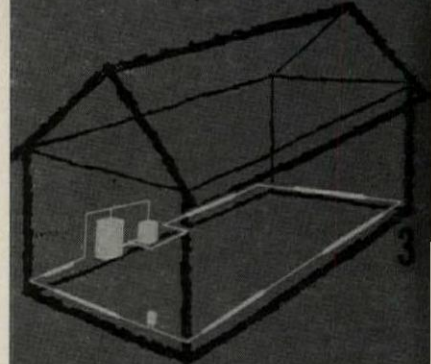
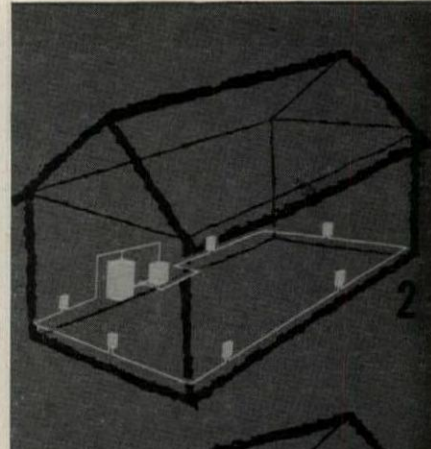
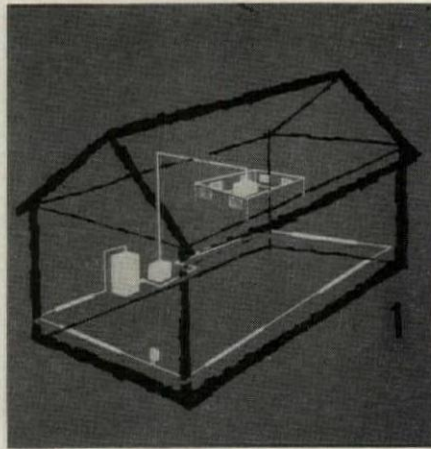
One of the most important considerations in the choice of heating is plan. What type of system should the architect select for a multi-level house, or for a rambling one-story? These are not ordinary houses in the sense that they pose special heating problems. They call for (1) the transfer of heat over long distances and (2) the careful balancing, or zoning, of heat from room to room. The relation of living areas to utility areas should also be taken into account, particularly in a split-level design.

Let us suppose that an architect is designing for a builder who wants a tri-level house. Is it to the architect's advantage to suggest a zoned heating system? Obviously yes, for by putting different levels of the house on different heating circuits (as with wiring), he can supply remote areas of the house with the proper amount of heat and (2) he can keep a balanced flow of heat to these areas. Moreover, he can do it with only one heating plant, or boiler.

For hydronics, the new science of heating and cooling with liquids, a zoned heating system is relatively simple. Each level, or group of rooms, is put on a separate circuit. Each circuit is thermostatically controlled by a circulator or by means of motorized valves. The flow rate and temperature of the water returning to the boiler can be checked visually. Balancing of circuits, already synonymous with hydronics, has been made even more accurate. Often as

## COOLING SYSTEMS COMPATIBLE WITH HOT WATER HEATING

1. *Separate liquid cooling system: central air conditioning unit cooled by water chilling plant.*
2. *Convactor heating-cooling system: boiler and water chiller connect to a common piping system.*
3. *Baseboard heating-cooling system: a variation of the convactor type, often put at ceiling.*
4. *Separate chilled air unit: uses a self-contained central air conditioner.*
5. *Self-contained room units: standard units to cool individual rooms.*



many as a half dozen or more of these balancing devices may be used in large multicircuit layouts.

The circuit, whether single or multiple, needs at least one or more circulators to keep water moving through it. Hydronic circulators are vibrationless and noiseless; in fact, it is impossible to tell, even by putting the hand on it, when a circulator is running and when it isn't.

### Single-Circuit Hydronic Heating

Where the plan of the house is more or less rectangular and of average size, a single-circuit system should be specified. In a slab house a series-loop baseboard panel layout provides true perimeter distribution of heat and allows the simplest of installation techniques. Use of baseboard panels as part of the main line eliminates run-outs and risers—plus a number of fittings. Material and labor costs are thus appreciably lower with a series-loop system.

Another type of design which calls for hydronic heating is the bi-level house using both slab and conventional construction. In this case, a combination of baseboard panels and radiant-coil heating may be the best solution. Here two circuits are used, one for supplying radiant coils (laid just prior to pouring the slab), and the other for baseboard panels installed on or above grade.

When the hardware's by *National of Sterling*

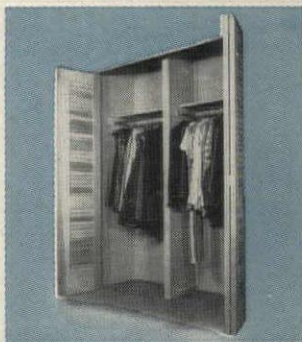


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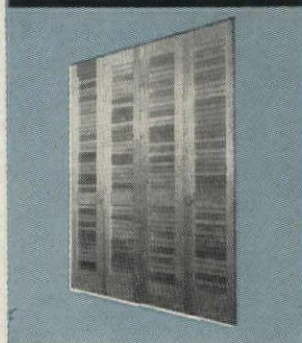
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Here you see the complete accessibility gained by the use of National fold and slide doors.



**FULLY CLOSED DOORS**

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# aldrin

## PRODUCTS FOR THE HOUSE

Each year, on drawing boards and in laboratories and plants, the advances in engineering and styling are translated into new materials and equipment designed to add a greater measure of comfort, beauty and convenience to the modern home. A cross section of these products is reviewed here and on the following pages.



### New Look in Wall Switches

The *Fashion Plate* wall switch replaces the customary bevel-edged wall plate and protruding switch handle with a straight-sided rectangular wall plate that frames a large actuator. A touch at the top of the actuator turns the switch on; a touch at the bottom turns it off. Made to mount in standard wall boxes, the *Fashion Plate* switch can be had in 15 and 20 amp ratings for 120 to 277 volt AC. Wall plates in black or white, and actuators molded of ivory or clear plastic are available for mounting singly, or in two- or three-gang combinations. *Bryant Electric Co., Box D., Barnum Station, Bridgeport 2, Conn.*



**Pre-Built Window-Wall Component**  
*Strutwall*, a new window-and-wall

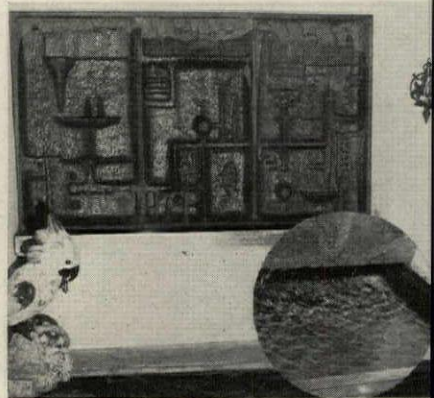
component, is made up of Andersen *Flexivent* or *Beauty-Line* windows factory-glued and nailed to surrounding framing members to form a load-bearing wall component suitable to any type of frame construction. Users report substantial savings in material and labor costs as compared to conventional framing and window installation. *Strutwall* comes in seven modular sizes that fit with 16-in. stud spacing. Two door frames are available in addition to the window units. *Andersen Corp., Bayport, Minn.*

### Contour-Styled Bathtub

The new *Contour* bathtub, said to be the first major design change in 25



years, is shaped to provide maximum bathing space and comfort. By setting the opening at a slight angle to the straight front apron, the bather has been given more elbow-room; wide ledges have been provided for foot bathing, bathing children or placing bathroom accessories; and the rim has been narrowed for easier gripping. The new bathtub is also easier to clean because the contour shape brings the back of the tub within easy reach. Made of enameled cast iron, it comes in white and six colors. *American-Standard Plumbing and Heating Div., 40 West 40th St., New York 18, N. Y.*



### Hanging Sand Form Fountain

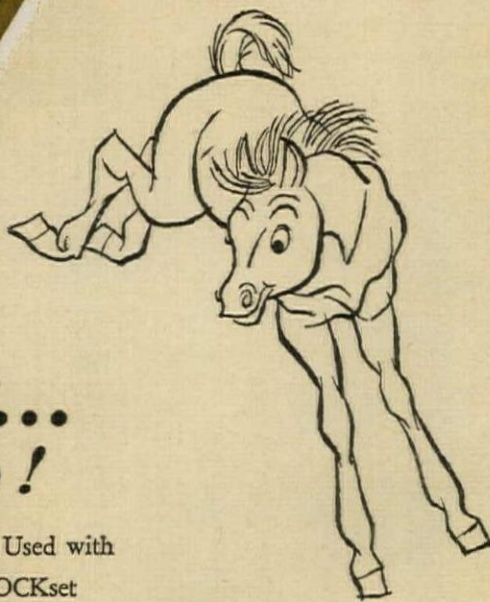
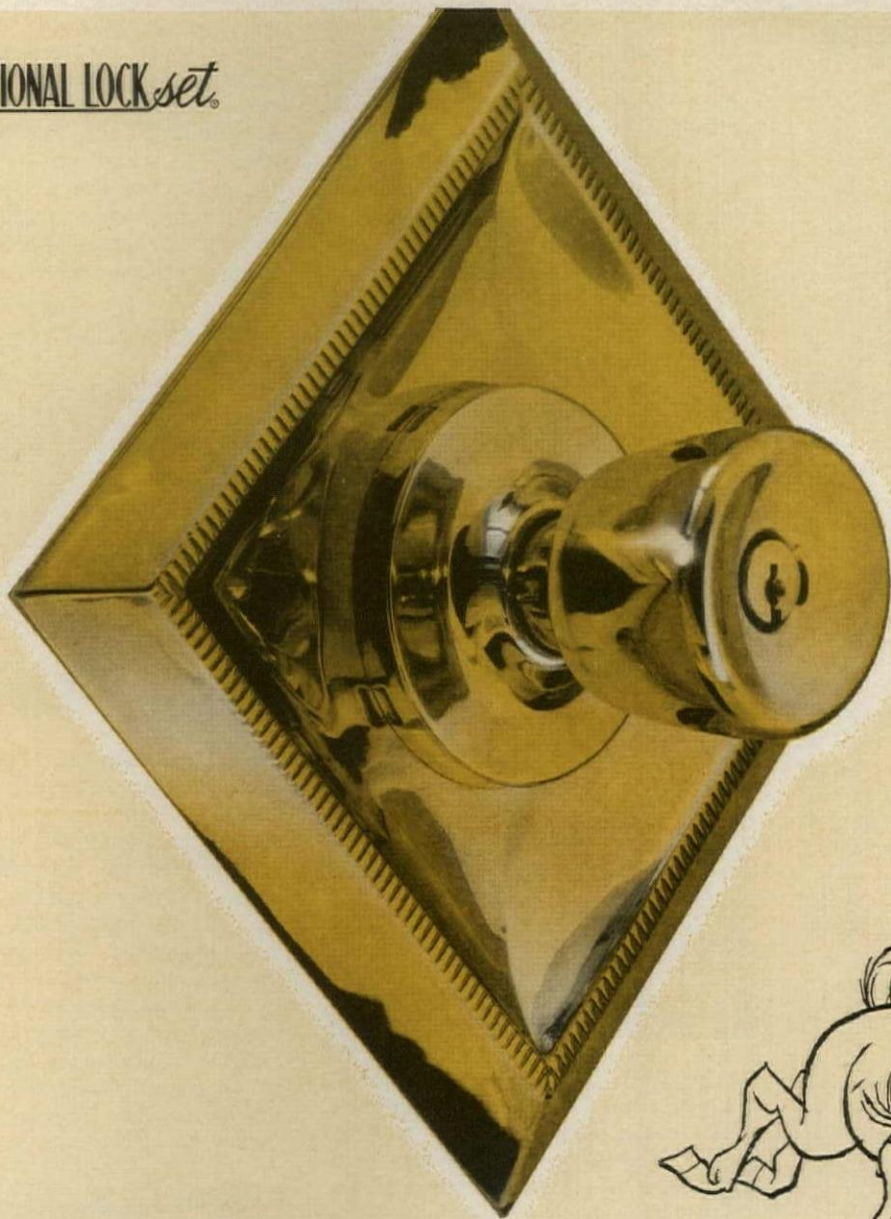
Sand and plastic are decoratively combined in custom-made hanging fountains like the one shown above. In most models, a well in the base contains a centrifugal pump, flow control valve and "perpetual" water supply. Water flows down the face of the fountain into a copper basin, as shown in the inset. The fountains are made in custom sizes with a minimum surface area of 7½ sq ft. They can be had in brown or white. *The Fountain Mart, 145 East 53 St., New York 22, N. Y.*

### High-Efficiency Oil Furnace

The new *Custom Mark II* is said to be completely clean-burning and virtually maintenance-free, with attendant savings on both fuel and upkeep expense. Its efficiency is attributed to a new method of injecting fuel and air into the combustion chamber. Instead of the conventional gun-type burner arrangement, a special combustion flow system uses mechanical draft to draw fuel and air through the burner, producing a quiet, efficient flame. Since the furnace does not use natural draft, its operation is independent of varying chimney conditions. The new unit comes in ten sizes, in both vertical and horizontal design, with outputs ranging from 84,000 to 250,000 Btuh. *Iron Fireman Mfg. Co., 3170 West 106th St., Cleveland 11, Ohio*

more products on page 178

NATIONAL LOCK *set*



## Brand New... *and a beauty, too!*

Sonic . . . the ultimate in distinctive lockset styling. Used with a host of decorative escutcheons, this NATIONAL LOCKset creation lends a note of modern charm to every doorway.

The skillfully proportioned Sonic knob is available in all popular finishes with optional inserts in contrasting finishes. Offered in all functions, Sonic is soundly engineered to provide troublefree performance for years to come. Specify the lockset that's destined to become the new popularity winner.

**Medalist**

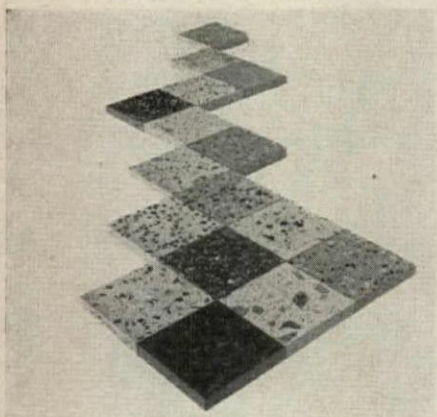
**HARDWARE DIVISION**

**NATIONAL LOCK COMPANY • Rockford, Illinois**



**Modular Heating-Cooling Units**

The flexibility of modular design has been applied to heating and cooling equipment in the new Lennox *Landmark* series. The series includes matching "blocks"—blower-filter section, heating section (gas, oil or electric), and cooling section (including a heat pump)—which can be combined to give any combination of air volume, heating and/or cooling. Heating capacities range from 68,000 to 350,000 Btuh input, cooling from 2 to 10 tons. Multiples of these capacities are possible through a unique interlock system. The units have been particularly designed for quiet operation: blowers have complete floating assemblies; rigid cabinets have acoustical lining; air resistance through the unit is low. *Lennox Industries, Inc., Marshalltown, Iowa*



**Precast Terrazzo Blocks**

*Bello* precast terrazzo blocks in sixteen designs and thirty basic colors form a decorative lifetime surfacing for interior and exterior applications. Because the blocks are completely finished and need no drying or grinding time, they can be installed at a substantial saving in time and money. They may be laid with or without brass or aluminum stripping, and are available in 12- or 16-in. squares. *The Haves Corp., 1105 Jericho Turnpike, New Hyde Park, N. Y.*

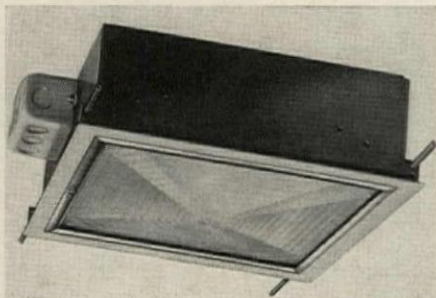
**Gas-Fired Air Conditioner**

The new Bryant gas-fired air conditioner is entirely air-cooled, operates quietly and automatically, and can be added on to existing furnaces. The absorption refrigeration machine, designed for outside installation, produces chilled water which it circulates through a coil package mounted in the furnace duct system. The equipment requires no cooling tower, water supply, or heavy electrical circuits. (The motors for the fan and circulating pump operate on ordinary 115v circuits.) It can be adapted to all types of gases, and uses conventional cast iron burners and standard automatic controls. The present model is of three-ton capacity. *Bryant Mfg. Co., 2020 Montcalm St., Indianapolis, Ind.*



**Range With Built-In Venting**

A 30-in. range which includes power venting combines a large oven, a broiler, and four top elements in a single unit which can be mounted on a cabinet. Fans installed inside the range pull cooking odors and vapors through two small removable filters located directly above the top units. The duct opening is adjustable so that it can be made to conform to the location of studs in the wall behind the range. Since the vents are an integral part of the range, they are both less obtrusive and less costly than separate venting systems. *The Tappan Co., Mansfield, Ohio*



**Shallow Built-In Lighting Fixtures**

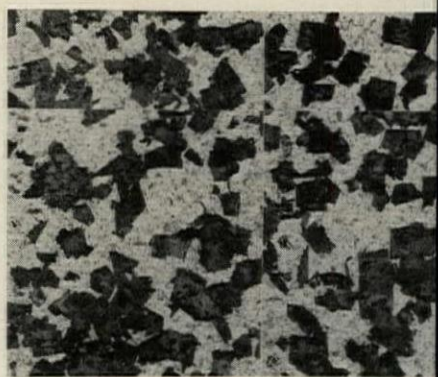
A new recessed lighting fixture for lamps up to 150 watts requires only

a 4 $\frac{1}{4}$ -in. depth above the ceiling. It uses a wide spread lens which distributes light through a full 180 degrees, lighting the walls to the ceiling line although the lens itself projects less than an inch below the ceiling. Since the fixture has a cast aluminum frame and stainless steel door, it is rust resistant and suitable for use on open porches. *The Kirlin Co., 3435 East Jefferson Ave., Detroit 7, Mich.*



**Sink Designed for Waste Disposer**

Self-rimming *Disposo-Well* sinks, the first stainless steel sinks designed specifically for food waste disposers, feature an off-center 8-in. drain funnel which confines waste material to one corner of the sink. The off-center location of the well also provides greater working space in the bowl, and prevents piled up dishes from covering the drain. The sinks are offered in single and double bowl models. *Lyon Stainless Steel Products, 13881 West Chicago Blvd., Detroit 28, Mich.*



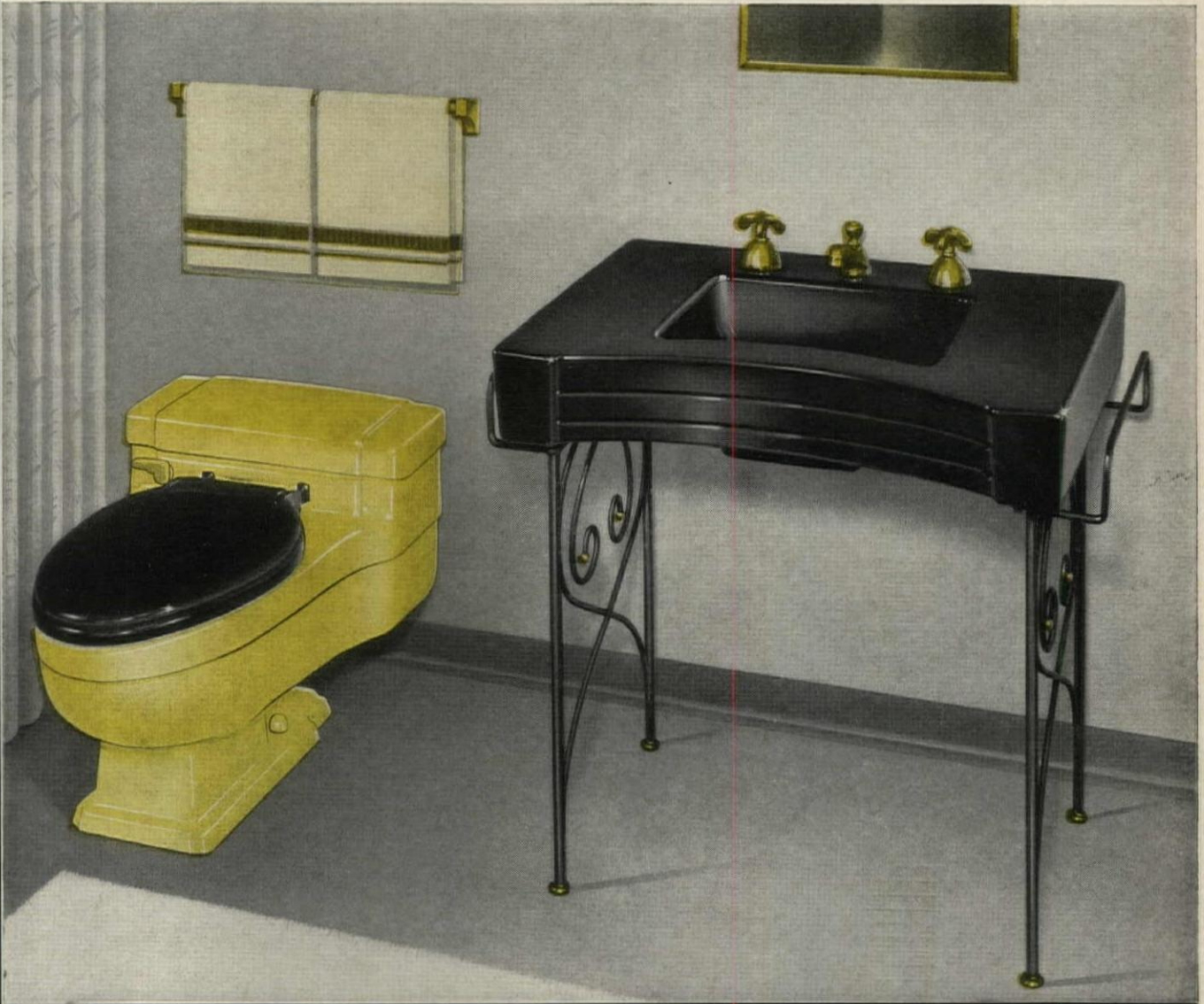
**Textured Cork Tile**

The textured appearance of the new "Seville" pattern in *Vinyl-Cork* tile is achieved by applying thin cork shavings to a cork base and laminating the whole in a tough vinyl sheet that gives maximum wearability. Three tones are available: Light—light shavings on a light base; Medium—dark shavings on a light base (shown); and Dark—light shavings on a dark base. *Dodge Cork Co., Inc., Lancaster, Pa.*

*more products on page 180*



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IN 49 DECORATOR COLORS PLUS SPARKLING BLACK AND WHITE

Your clients will thank you for specifying these two attractive fixtures by Case: the industry's first concave lavatory plus the one-piece water closet famous for its whispering flush.

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#### SAF-T-LOK

#### WEATHERPROOF COVER

- Locks in open position
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- Can't be loosened or pulled off

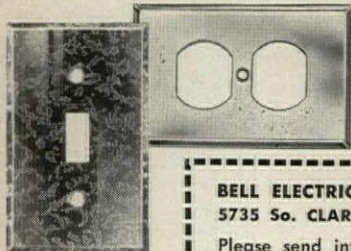
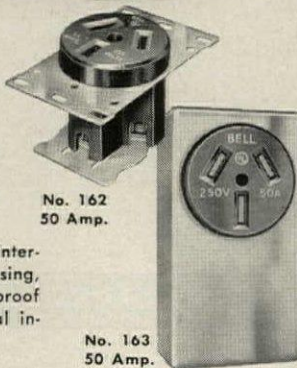
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30 and 50 AMP. Grounding Type

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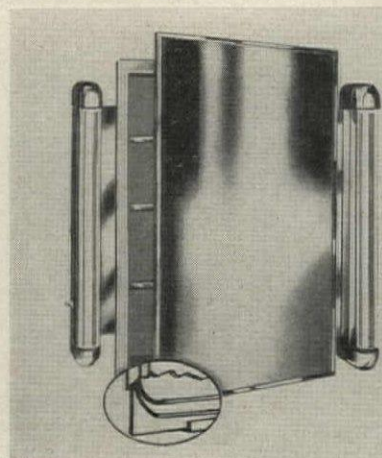
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*Products for the House*



#### No-Fog Bathroom Mirror

A sheet of insulated, low current conducting material placed behind the mirror and wired into the cabinet light circuit gives a balanced temperature that completely eliminates fogging of mirrors on *No-Fog* bathroom cabinets. Initial costs are only slightly more than for standard cabinets, and operating costs are said to be negligible. *Charles Parker Co. Meriden, Conn.*



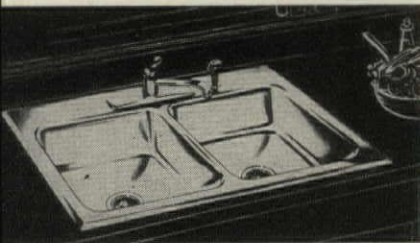
#### Eye-Level Controls on Range Hood

A ventilating hood designed for use over countertop ranges includes eye level pushbutton controls for four electric surface units, placing the controls safely out of children's reach. Available in copper and stainless steel finishes, it houses a 7-inch high speed ventilating fan which moves 300 cubic feet of air per minute. The hood light can be turned on when the units are not in use, and also serves as a master indicator light, operating automatically when any surface unit is in use. Both fan and light are easily removed for cleaning. *Appliance and Television Receiver Div., General Electric Co. Appliance Park, Louisville 1, Ky.*

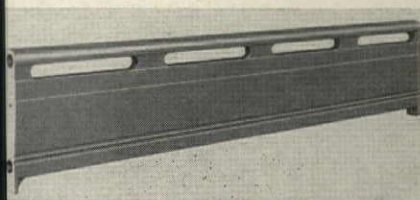
*more products on page 18*



**Oriental "Fishnet" Tile Design**  
 The latest design in Pomona Tile's "Distinguished Designer Series" is an Orient-inspired "Fishnet" pattern fashioned by water-colorist Dong Kingman. Bold but casual, the new pattern resembles brown netting tied at intervals with knots of red and blue. It is available in 4¼-by 4¼-in. modules, in satin or *Perma-Glaze* finishes. *Pomona Tile Co., 29 N. LaBrea, Los Angeles, Calif.*



**Self-Rimming Sink**  
 A new one-piece stainless steel sink is specifically designed to provide perfect sealing with any counter-top material in half the time, without using an extra rim or frame. No sealing material is required since specially bevelled edges and adjustable lugs assure a tight fit even if the counter top sags or is uneven. The *Cartrim* design is available in both single and double bowl sinks. *Sink Div., Carrolton Mfg. Co., Carrollton, Ohio*



**Larger Radiant Baseboard Units**  
 The *Base-Ray* radiant baseboard heating system now includes Number 9 units (9⅞ in. high, 2¼ in. deep) for use where heat loss tends

to be exceptional. Both the new large units and the standard No. 7 (7 in. high, 2 in. deep) units can be used successfully on all types of hot water and two-pipe vapor and steam installations, although hot water is generally preferred. Only conventional piping layout, boiler and pipe sizes, and supply and return connections are required. *Burnham Corp., Irvington, N. Y.*

**Surface Mounting Power Outlets**  
 Two new surface mounting power outlets designed to simplify and

speed residential power installations feature sturdy aluminum or steel ivory-crackle finish housings fitted with interchangeable 30 or 50 amp receptacles. The receptacles are locked in, but can easily be removed so that wiring can be done "in the open." A sliding back plate which opens to expose the terminal connections further speeds installation. Suitable for all household appliance installations, the units take standard 3-wire cordset caps. *Bell Electric Co., 5737 S. Claremont Ave., Chicago 36, Ill. more products on page 188*

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# Textolite Ideas



Building designed and Textolite specified by Architect Neil S. Greydanus, S. E. Greydanus & Son, Prospect Park, N. J.

Used in lobby of new county service building

## Walnut-pattern General Electric Textolite<sup>®</sup> shapes image of efficiency-with-a-heart

**TEXTOLITE WOOD-PATTERN CREATES WARM FIRST IMPRESSION**

**... CUTS MAINTENANCE COSTS TO THE BONE!**

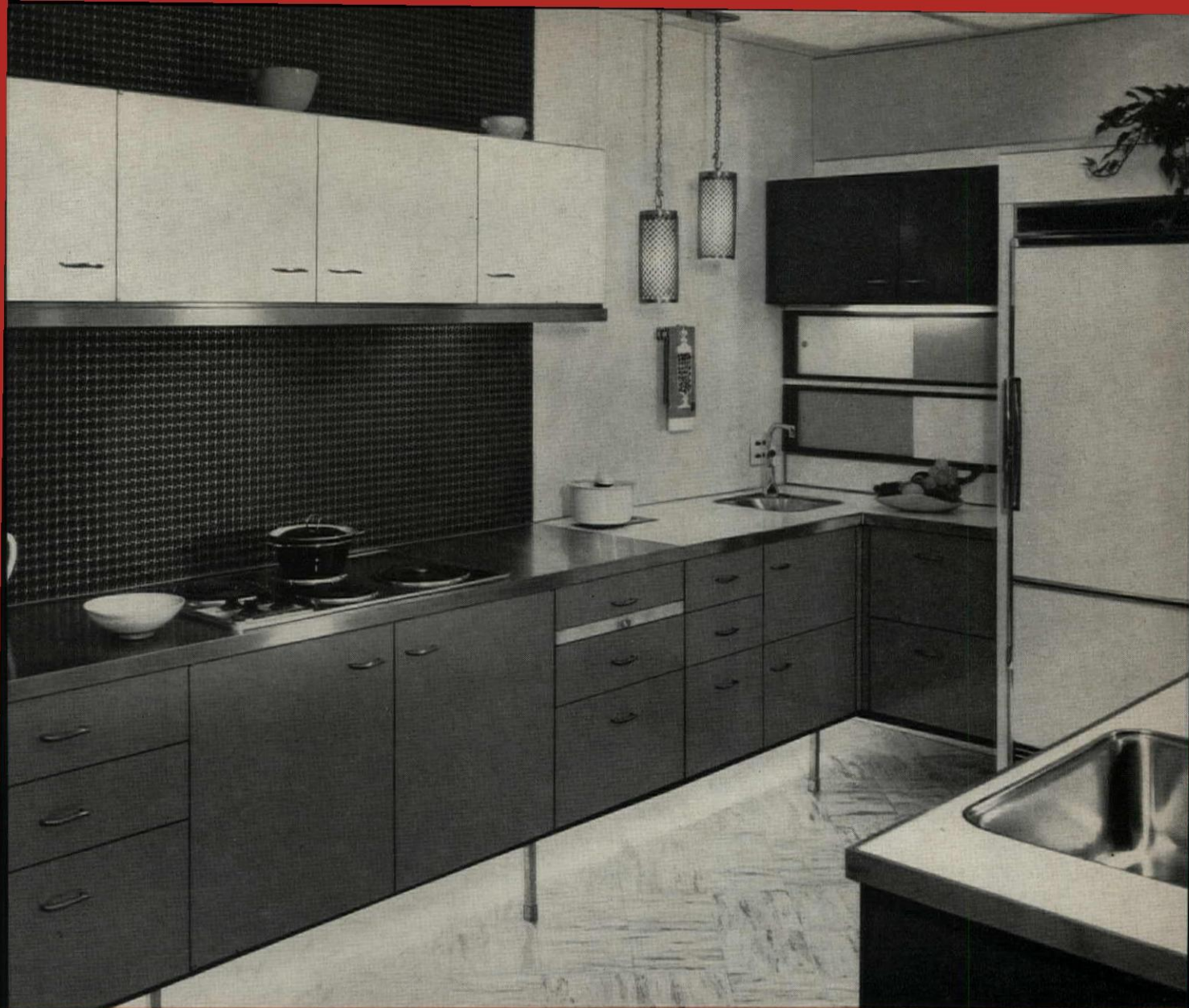
1500 square feet of Textolite Frosted Walnut cover the lobby walls of the modern Passaic County Service Building in New Jersey. These Textolite surfaced walls, by combining the maintenance efficiency of a plastic laminate with the warming effect of real wood, help shape an image of efficient but friendly service in the minds of those entering the building.

On walls, doors, tables, desks, counters—wherever you want durability *plus* beauty—General Electric Textolite will add warmth through pattern and color and subtract costly hours of maintenance time.

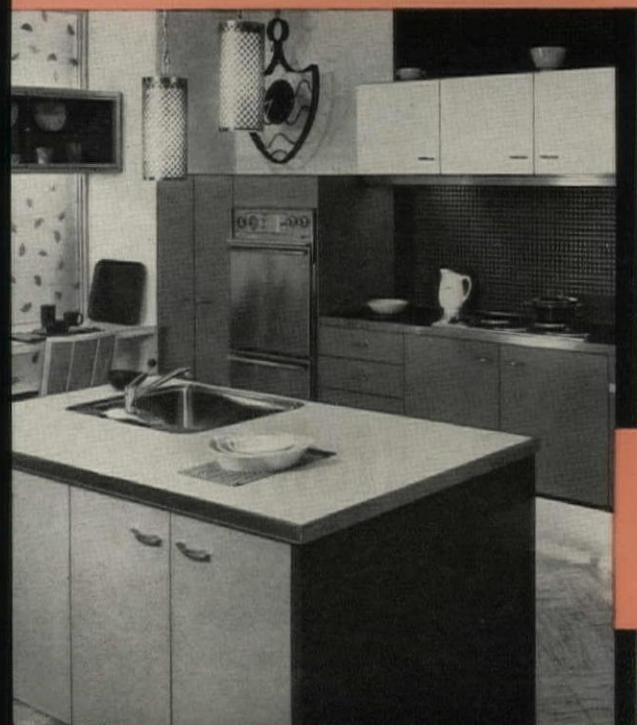
For Textolite, unlike wood, doesn't need waxing or periodic refinishing; it *stays* as good as new with just a sweep of the sponge.

See all of the 67 Textolite colors and patterns in the 1959 Sweet's Architectural File, Catalog 14a/Ge. Or write to the Laminated Products Department, General Electric Company, Box 495, Marion, Ohio, for a free color folder showing the 67 patterns and colors. And for answers to any questions you might have, call your nearby Textolite distributor. He's listed in the Yellow Pages under "Plastics".

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GENERAL  ELECTRIC



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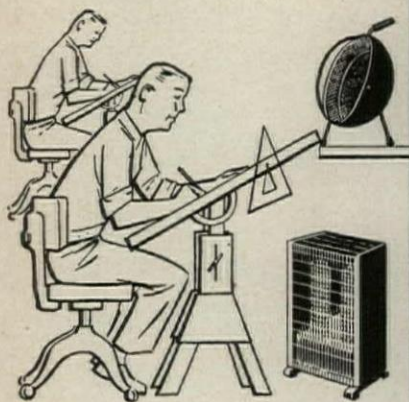
*Write for completely new 28-page book featuring individual kitchens for different family types, and detailed information and specs on St. Charles units.*



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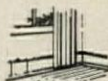
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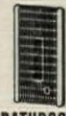
WIRED HEAT CABLE



HOT WATER RADIANT



BATHROOM HEATERS

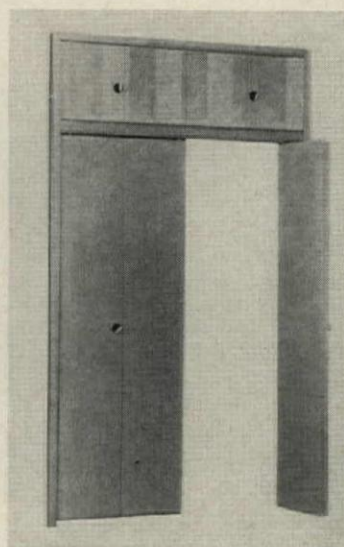


BATHROOM AUTOMATICS



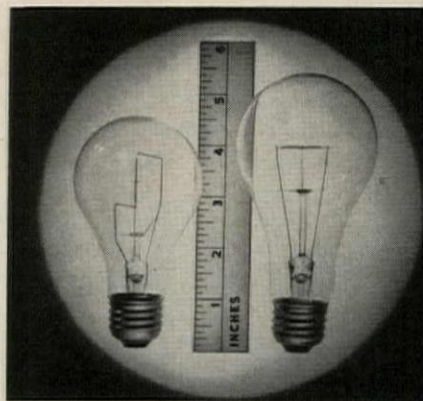
FORCED AIR HEATERS

## Products for the House



### Easily Installed Closet Front

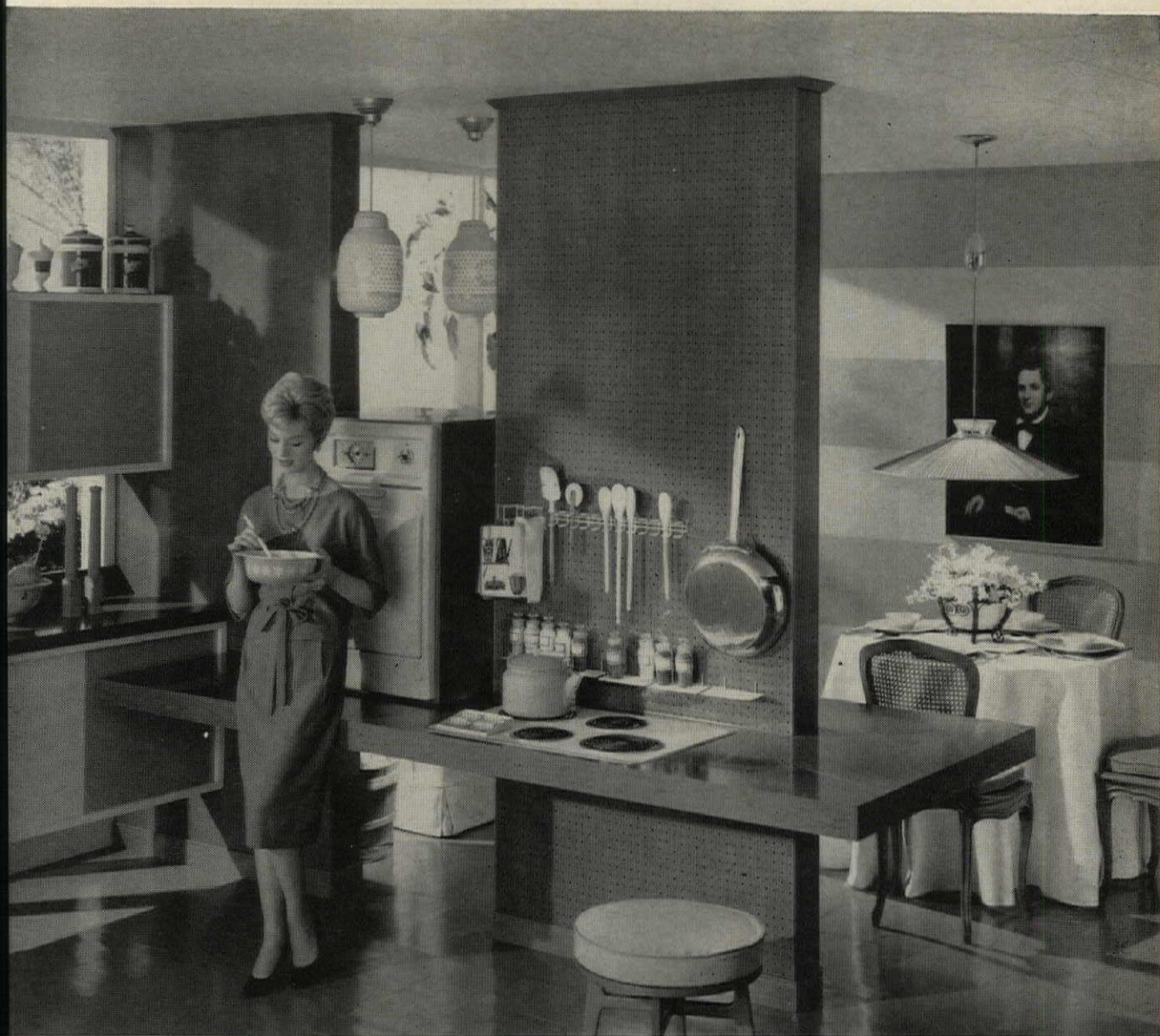
The new Precision "20-Minute" closet front assembly comes completely assembled including jambs and header, braced and ready to set. According to the manufacturer, one man can set the assembly in 20 minutes by driving four nails through factory attached cleats, plumbing the front, wedging and nailing jambs to studs, and removing factory braces. Flush-type hollow core doors which fold to give access to entire closet space are available in Birch, Laua Veneer and Paint Grade Veneer. Precision Parts Corp., 400 N. First St., Nashville 7, Tenn.



### Improved Household Light Bulb

By placing the tungsten filament lengthwise rather than crosswise along the bulb axis, General Electric has reduced the size of its 100-watt household bulbs to that of present 60- and 75-watt bulbs. At the same time, the light-producing capacity of the bulbs has been increased by about five per cent. The new filament construction will be used in both "soft white" and conventional frosted bulbs. General Electric Co., Nela Park, Cleveland 12, Ohio

more products on page 19



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Smart, modern interiors shape up faster with Marlite. That's because this modular paneling is easy to handle . . . easy to install with ordinary carpenter tools. The result is a completely finished wall that needs no decorating . . . adds luxury to any interior. Moreover, Marlite's baked melamine plastic finish resists heat, moisture, grime and stains. It wipes

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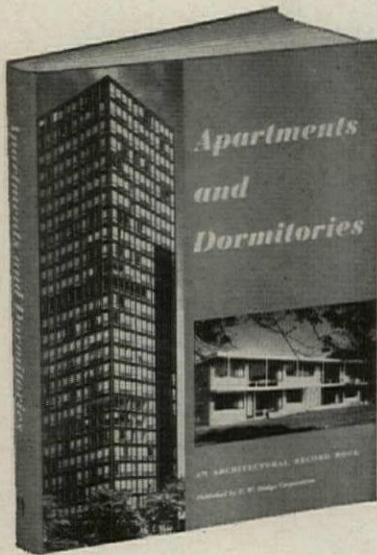
the comprehensive, fully illustrated survey of multiple dwellings

# APARTMENTS and DORMITORIES

by the editors of ARCHITECTURAL RECORD

238 pages, large 8¾ x 11½" size  
over 275 photographs  
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Here is the latest, most complete source of information on this expanding building type. In expertly-authored text and over 475 fine illustrations are shown some 51 multiple dwellings of all sizes, plus additional material on social and technical considerations. The book is divided into five major sections:

## 1. BUILDING MULTIPLE DWELLINGS

Discusses housing patterns and the economics of shelter. Presents technical studies on heating, vertical transportation, cost-saving apartment designs, and engineering details.

## 2. APARTMENTS: COMMUNITY-SCALE PROJECTS

After an introduction which treats of the broader aspects of community planning, there are studies of four large-scale projects, each housing thousands of families in a balanced community of high-rise and low-rise apartments, row houses, and individual houses.

## 3. APARTMENTS: LARGE PROJECTS

Twenty-two large buildings or groups of buildings are shown here. The story behind each is presented — how it was financed, what type of tenants it was designed for, site problems, other design considerations. Floor plans show you unusual corridor and elevator-shaft arrangements, flexible layouts, other idea-provoking details. Numerous interior and exterior photographs are included.

## 4. APARTMENTS: SMALL PROJECTS

Ten-family buildings, two-family houses, duplexes, and a hunting club are shown here. Many of these buildings are on unusual sites, and their purposes vary — some are for single persons, some are for faculty members, some are public housing, and some are in the luxury class.

## 5. CAMPUS DORMITORIES AND APARTMENTS

Opens with a discussion of dormitory design which warns of the danger of cell-like campus housing, and explains the architectural needs of the student. Eleven projects are shown, including dormitories at men's and women's colleges, and housing for faculty members and married students.

Throughout the book, every point is made clearer by the inclusion of numerous photographs, plans, and drawings. There is no other book in print which offers you such a wealth of up-to-date design information, plus the stimulation of seeing the best efforts of some of the world's leading architects.

Every one of the 51 projects in this book is the work of a gifted architect — some of these are famous, some are not yet. Here are a few of them:

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MIES VAN DER ROHE • RICHARD NEUTRA

I. M. PEI & ASSOCIATES • EDWARD D. STONE

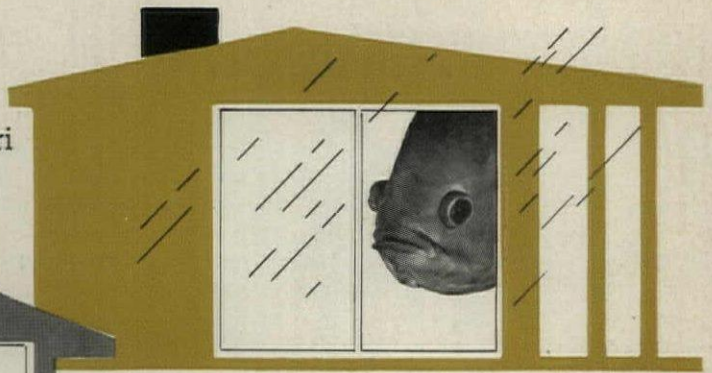
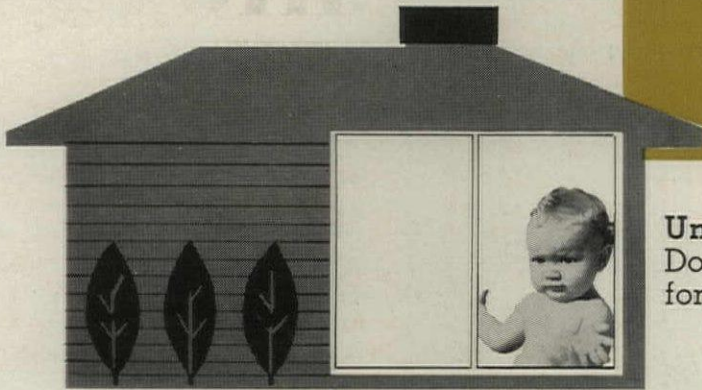
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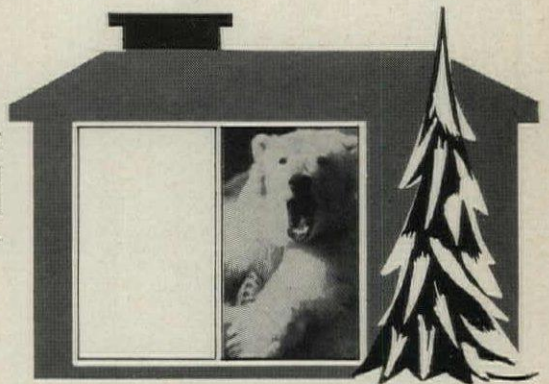
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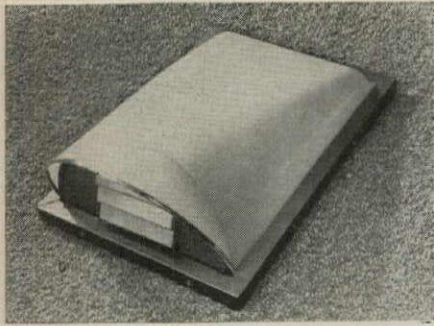
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COMPANY \_\_\_\_\_

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CITY \_\_\_\_\_ ZONE \_\_\_\_\_ STATE \_\_\_\_\_



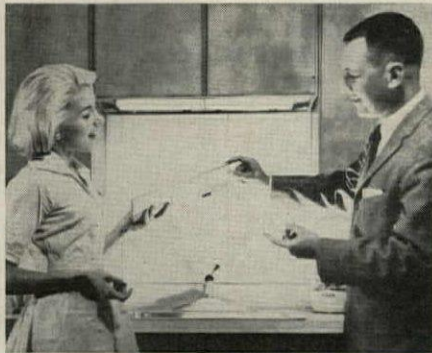
**Ventilating Skylight**

The *Daylite Ventdome*, a skylight especially designed for the residential market, combines overhead natural daylighting with powered ventilation in a single unit that fits all standard roof pitches. It is expected to prove particularly useful for the interior bathrooms and kitchens now permitted by FHA and VA. The dome itself is of shatter-resistant, clear or translucent *Acrylic* plastic, mounted in a weathertight extruded aluminum frame. Positive ventilation is provided by an 8-in., 110v fan, and self-closing louvers prevent drafts when the fan is not in use. *Wasco Products, Inc., Bay State Rd., Cambridge, Mass.*

**Shallow Undercabinet Light**

The *Little Inch*, a 7/8-in. deep surface-mounted fluorescent unit with

a wrap-around translucent plastic diffuser, is designed for supplementary kitchen lighting and other limited-space applications. In spite of its small size, the unit is said to give 40 footcandles of light. Operation may be push-type switch or starter; continuous runs for large work areas can be operated by one wall switch.



The 12 1/2- by 5-in. housing, available in satin stainless steel or white baked enamel, holds a F8 T5 fluorescent lamp. *Alkco Mfg. Co., 4242 No. Lincoln Ave., Chicago 18, Ill.*

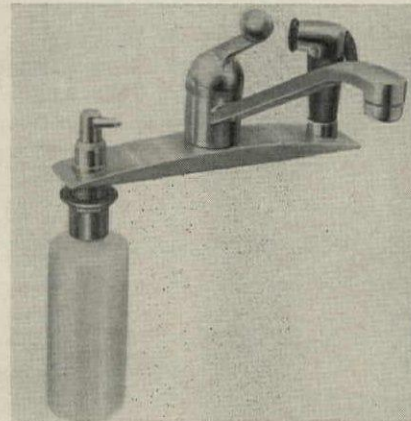
**Improved Light Controls**

The improved and restyled line of *Luxtrol* light controls now includes a unit with 1800 watt capacity, in addition to the 450 and 800 watt models formerly available. All are small enough to install in an ordi-

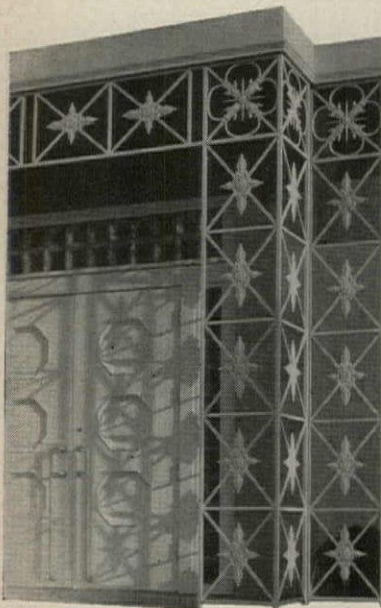
nary 4-in. wall and can be used to control fluorescent as well as incandescent lamps. (The 1800 watt unit controls up to 50 tubes.) The face plates, which have been restyled to fit more closely to the wall, can easily be wallpapered or painted. *Superior Electric Co., Bristol, Conn.*

**Soap Dispenser Faucet**

Delta's new *Dispenser Model* faucet adds to the trouble-free single-handle ball faucet and spray attachment previously available a hidden dispenser for liquid soap or detergent—or hand lotion. *Delta Faucet Division, Masco Screw Products Co., 1282 Ford Rd., Dearborn, Mich.*



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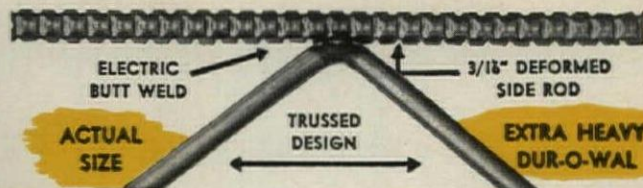
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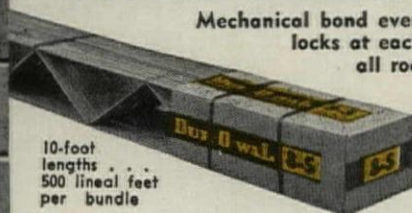


Mechanical bond every 8 inches of wall . . . Two mortar locks at each weld . . . Electric butt welds place all rods on a single plane; make possible uniform mortar joints . . . Trussed design causes side rods to work together . . . Conforms to ASTM std. A-82-34 for high tensile steel . . . 6-inch lap at splices develops continuity and maintains reinforcing strength . . . Deformed side rods for maximum bond strength.

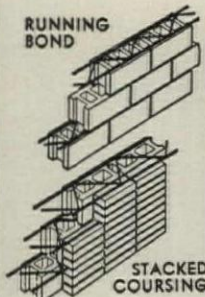
More Than 8,000 Dealers stock Dur-O-wal

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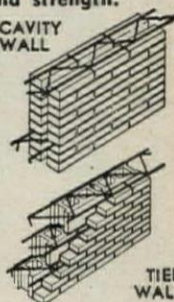
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CAVITY WALL



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### SELECTION TABLE

Wall Thickness	4 in.	6 in.	8 in.	10 in.	12 in.	13 in.
Extra Heavy Dur-O-wal	4-EH	6-EH	8-EH	10-EH	12-EH	13-EH
Wt. per 1000 lin. ft.	247 lb.	250 lb.	257 lb.	266 lb.	276 lb.	282 lb.
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Wt. per 1000 lin. ft.	178 lb.	180 lb.	187 lb.	196 lb.	207 lb.	212 lb.

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# Homes of Record Feature



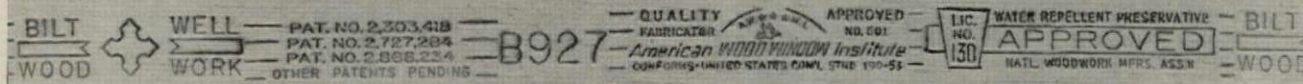
This living room features BILT-WELL Casements. Designed into the new BILT-WELL Casement are values that add real beauty to any home. Completely concealed hinges—no exposed hardware to rust or mar the clean, simple lines of the window. Patented unitized sill construction eliminates need for long, cumbersome sills. Double weatherstripping results in annual fuel savings in average homes of up to \$28.00.



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In this modern, efficient kitchen the Architects fully achieved the flexibility of BILT-WELL Cabinets. Over 100 different types and sizes of BILT-WELL Cabinets in 3" modules from 12" to 48" makes it possible to provide a "custom look" for every kitchen with considerable savings in cost. Available with Ponderosa Pine or Birch door and drawer fronts, cabinets come ready for finishing in natural tones or decorator colors.



For additional detailed information on these products see Sweet's Architectural 17c/Car and 24b/Car, or Sweet's Light Construction 6c/Car and 12a/Car.



THE BILT-WELL LINE: WINDOW UNITS, Double-Hung, Awning, Casement, Basement, Storm and Screen. CABINETS, Kitchen, Multiple-Use, Wardrobe, Storage and Vanity-Lavatory. DOORS, Exterior, Interior, Screen and Combination.

# BILT-WELL

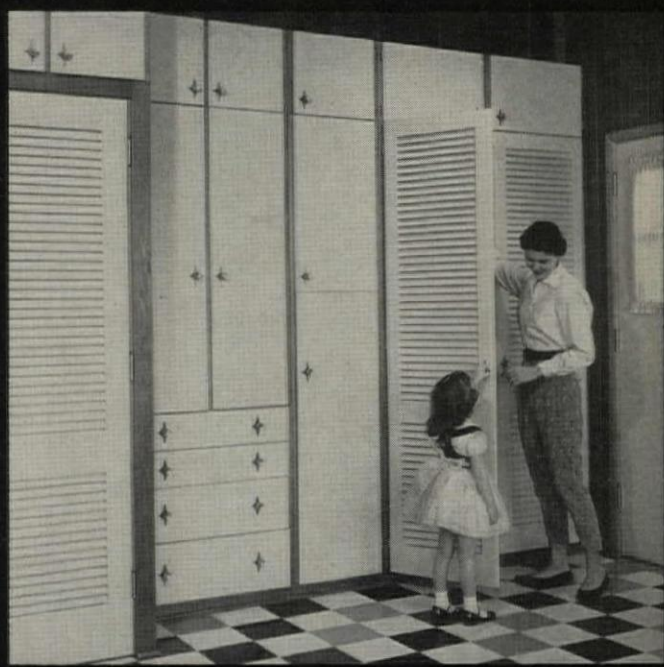
## Windows and Cabinets

The real value of any home is always more than meets the eye. Genuine beauty goes deeper than mere external appearances. It includes quality. A home, like a product, to be truly beautiful must possess such hidden attributes as sound basic design and engineering, unexcelled quality materials and uncompromised craftsmanship.

Take the home pictured here, for instance. An important part of its beauty is made up of the unseen qualities inherent in the BILT-WELL Products which are an integral part of the architecture.



Adding an elegant touch to the dining area are the popular BILT-WELL Double-hung removable windows. Patented weatherstripping expands and contracts with temperature and humidity changes to provide complete, continuous weathertightness. Overhead balances permit fingertip opening and closing. Both sash can be quickly removed from the inside for ease in cleaning.



In this family room the Architect made good use of BILT-WELL Storage Cabinets. Versatile BILT-WELL Cabinets not only add convenience and efficiency, but are also ideal for storage in every room of the house. More and more Architects are taking advantage of the functional features of BILT-WELL Cabinets for any and all storage requirements.



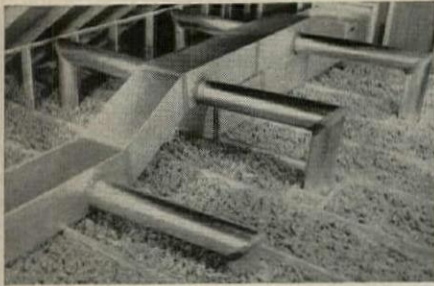
**BILT-WELL** woodwork

*Manufactured since 1866 by*

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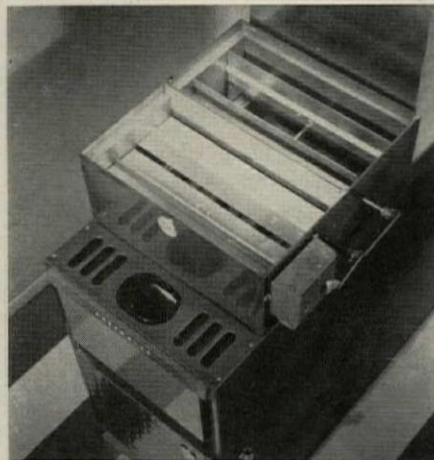
**Self-Insulating Ducts**

Round and rectangular prefabricated ducts, made of *Fiberglas* rigid insulation with an aluminum foil vapor barrier bonded to the exterior surfaces, combine duct system and insulation in a single product. They have a low heat transfer coefficient, help to deaden undesirable system noise, and can be easily installed with simple tools and standard sheet metal accessories. Various sizes, diameters and wall thicknesses are available. *Owens-Corning Fiberglas Corp., Toledo 1, Ohio*

**Residential Closet Carrier**

The new *Unitron* carrier has been specifically designed for wall-hung residential water closets. The carrier and fitting will fit into standard plumbing wall construction, either frame or slab; has ample vertical and horizontal adjustment for floor and

wall variations; and can be located within standard stud spacing. It fits all manufacturers' closet bowls with standard bolt centers. *Josam Mfg. Co., Michigan City, Ind.*



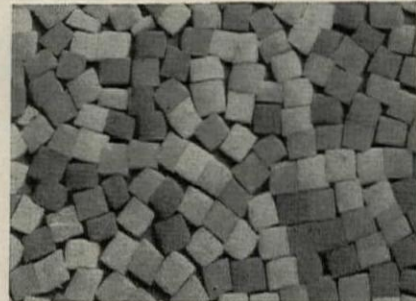
**Two-Zone Damper Control System**

Interpreting the signals from two thermostats situated in different areas or rooms, the motor-operated damper control of the *Rheem Auto-Balance* system constantly varies the proportion of conditioned air delivered to the two zones, maintaining the desired comfort level in each. The multiple damper system is housed in an insulated casing which may be mounted on the furnace as

above or on a central air conditioner cooling coil cabinet. *Rheem Mfg. Co., 7600 S. Kedzie Ave., Chicago 29, Ill.*

**Mosaic Patterned Vinyl Flooring**

Tiny blocks of vinyl, embedded in vinyl and surrounded by vinyl grout, make up the wearing surface of the new *Tessera* series in *Vinyl Corlon* plastic sheet flooring. The embossed surface created by the vinyl-in-vinyl mosaic tends to break up the high gloss of the plastic, thus helping to hide scratches and subfloor imperfections. Made in heavy (.090-in.) gauge, 6-ft-wide sheets, the *Hydro-cord*-backed flooring can be installed on, above or below grade. It comes in seven tone-on-tone colors: sage

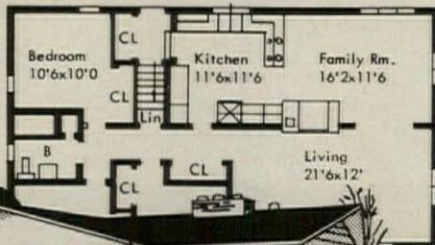


green, warm beige, medium gray, gray beige, putty, ivory and suede brown. *Armstrong Cork Co., Lancaster, Pa.*

more products on page 200

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TRADE MARK

VINYL NON-WOVEN WALL CLOTH  
by **Birge**

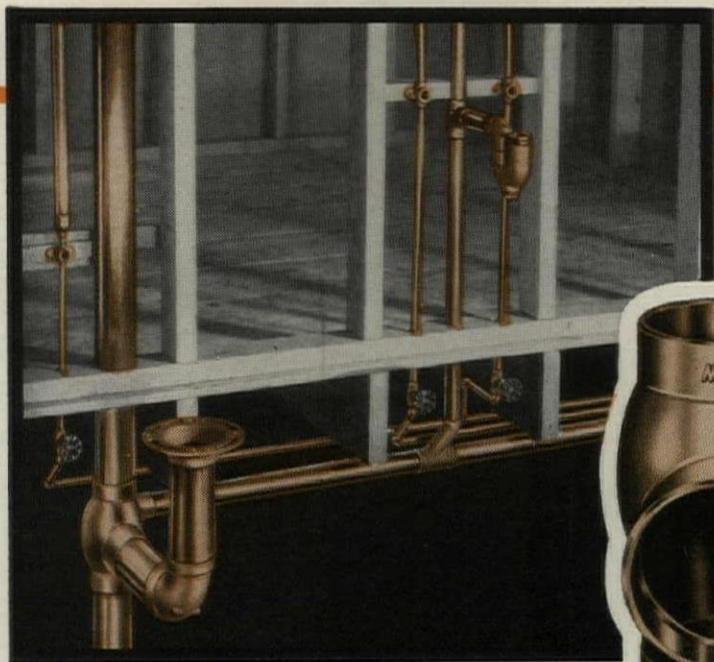
When you're seeking that original touch of decorative beauty, look to Fabrique Vinyl Non-Woven Wall Cloth by Birge. The specially engineered fabric and tasteful Birge designs are richly embossed and bonded in vinyl to last for years.

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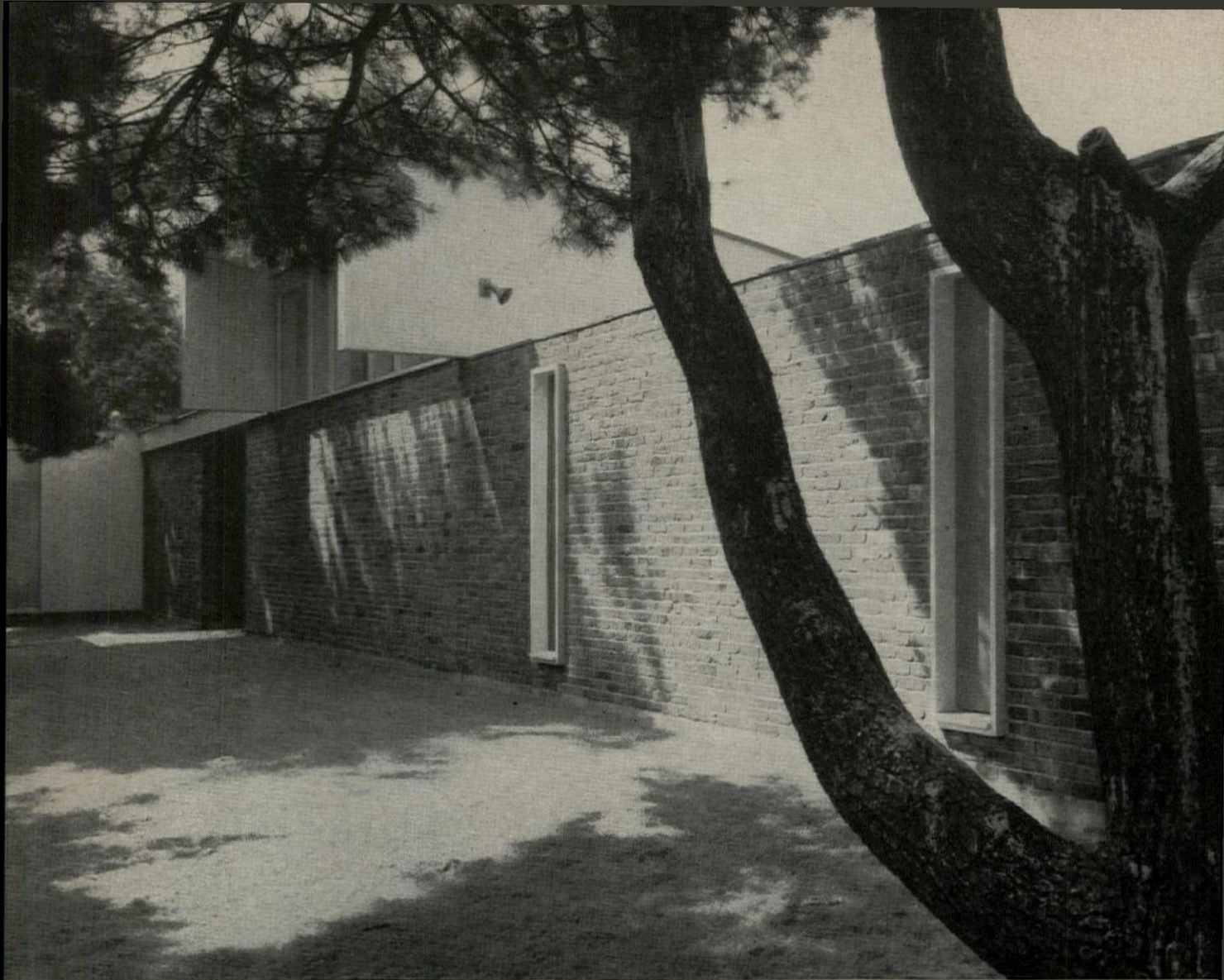


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265

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*In the José Luis Sert record house —*

# Lennox

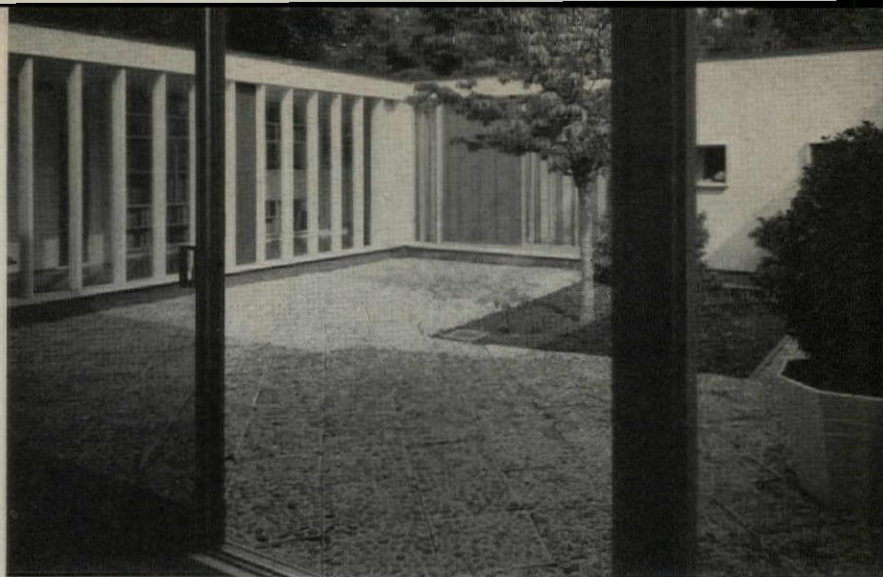
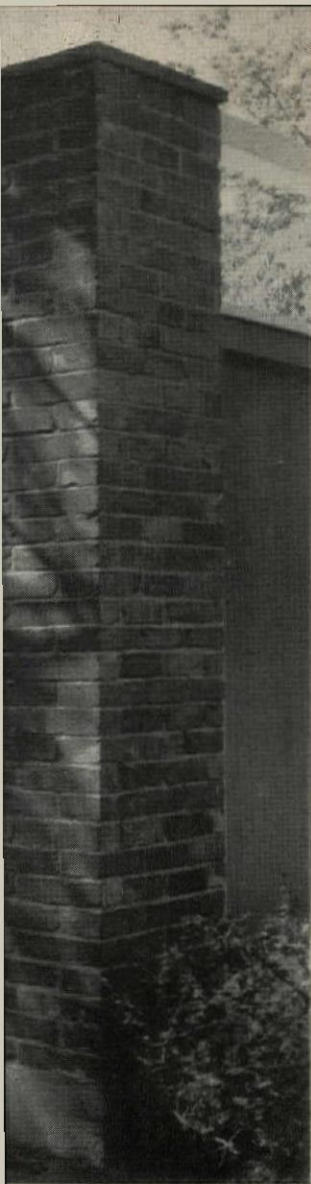


*In this Sert bedroom, as in other rooms, return air for the Lennox heating-air conditioning system is taken high in the room, with 80% of grille work concealed behind a cove moulding.*

*One of the floor diffusers used in the perimeter-type Lennox system is visible in this view of a hallway in the Sert House.*







*The liberal use of glass and sliding glass panels in the Sert House is well illustrated in this view of the interior courtyard. It posed a heating-air conditioning problem, but expert planning by the contractor and Lennox equipment were able to solve it satisfactorily.*

photographs by Louis Reens, New York City

# provides double assurance

*of finest heating and cooling in every room...under all conditions!*

**... Lennox equipment plus expert installation techniques of Lennox Comfort Craftsman doubly assured the solution of special comfort problems**

The unique construction, design and floor plan of the José Luis Sert home demanded expert knowledge and training in designing a year-round comfort system that would provide *perfect* heating and air conditioning in *every* room under *all* conditions.

The contractor selected was the Duval Sheet Metal Work, Inc., Lennox dealer of Lexington, Mass. The heating equipment chosen was a Lennox GH5-135,000 Btuh and a H5-150,000 Btuh unit hooked up in tandem. Sandwiched between these units was a Lennox LSB1-5-ton self-contained cooling coil. These three units, joined into a single assembly, operate through automatic dampers, and utilize a

common plenum. The air conditioning condensing unit, a Lennox HSA3-5-ton unit, was concealed by landscaping outside the home.

On the heating cycle, when demand warrants, and on the cooling cycle, both furnace blowers operate in unison. Despite this, however, the distribution system is broken down into two zones, and each zone is controlled by its own thermostat.

Efficient humidity control and the king-size Blue Shield Filters of the Lennox units provide added protection to furniture—and to the Sert Spanish art collection. For more information on Mr. Sert's Record House, see special feature included in this issue. For information on Lennox heating and air conditioning equipment, call your local Lennox Comfort Craftsman—or write Lennox Industries, 200 S. 12th Ave., Marshalltown, Iowa.

## **LENNOX**

*World leader in indoor comfort  
for homes, business, schools*



**Wide-Shelf Lavatory**

The newest addition to the *Beautyware* line is the Chaucer lavatory, which features a new fitting arrangement with spray spout and a wide shelf designed to accommodate toilet articles. The vitreous china lavatory may be built into a vanity or installed on a cabinet or legs. It comes in six colors and white. *Briggs Mfg. Co., 300 Buhl Bldg., Detroit 26, Mich.*

**Flush Garage Door**

A new residential garage door consists of a wood frame with 1/4-in. plywood applied to each side so that the door is flush inside and out. The *Flush Two-Sides* doors are mill-

treated with a water repellent and come with standard or budget-priced hardware. *Rowe Mfg. Co., Galesburg, Ill.*

**"Rustic" Wood Grain Panels**

The "Charter" series of *Weldwood* wall paneling captures a "woody" appearance via the deliberate retention of such natural wood characteristics as knots, burls, birds'-eyes and variations in grain. Woods currently included in the series are walnut (below), oak, birch and pine. Though relatively inexpensive, the Charter panels are given the same fine furniture finish as higher-



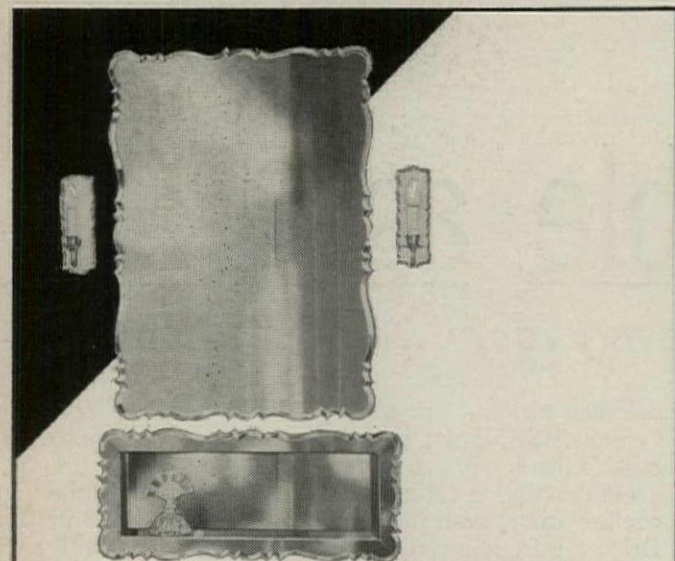
priced panels in the *Weldwood* line. *United States Plywood Corp., 5 West 44th St., New York 36, N. Y.*



**Combined Subfloor-Underlayment**

*Two-Four-One* is a structural 1 1/8-in. thick fir plywood panel engineered to function as a solid one-piece base over supports on 48-in. centers. As a finish floor—hardwood, tile, linoleum, carpeting—may be applied directly over it. With the stiff, seven-ply panels functioning in two capacities, crews handle fewer pieces; framing goes in faster. When girders are framed into the foundation, wall heights can be decreased a foot or more, bringing added savings in time and materials. *Douglas Fir Plywood Assn., 1119 A Street, Tacoma, Wash.*

more products on page 2



**FINE CABINETS & ACCESSORIES**

Unexcelled cabinets with cut mirror borders, matching recesses and lights, hand beveled mirrors. Also a complete line of distinctive concealed bathroom and kitchen accessories.

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Southern Host, Model SH 424 — fits masonry opening

front elevation:  
left to right 26 1/2"  
front to back 24 1/2"  
top to bottom 6"

**BURR-SOUTHERN DIVISION**

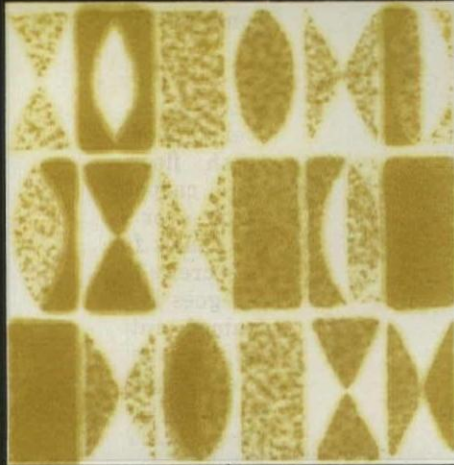
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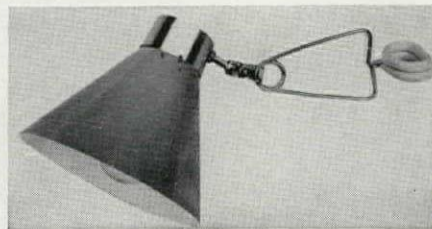
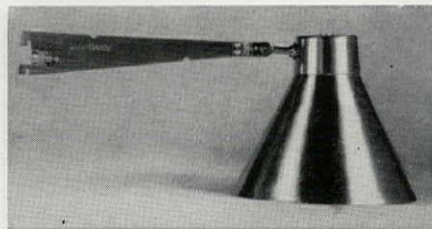


**Air Conditioning Control Panel**

The new Carrier *Climate Center* monitors outdoor weather and indoor conditions, and regulates the operation of a year-round air conditioning system. Designed for wall-mounting, the 8- by 14-in. instrument panel gives constant readings of indoor and outdoor temperatures, barometric pressure and relative humidity; controls heating and cooling cycles; and provides for automatic fan operation and for pre-set adjustments of temperatures. It also flashes warning lights if the filter is clogged, the pilot light goes out, the oil burner fails to ignite, the compressor starts to act up or the condensate drain is plugged. *Carrier Corp., Syracuse 1, N. Y.*

**Versatile Wall Lamps**

A new line of floor, wall and table lamps designed by Ward Bennett includes two that help to solve the problem of lighting wall shelves. One attaches to a slot standard via a bracket similar to those which hold shelves and extends 16 in. from the wall; the other is mounted on a clamp-on bracket which will clamp over shelves up to 2 in. thick. It extends 13 in. from the wall. Both come with the same basic light shield, available in green case glass or in opaque metal finished in white, black, orange, yellow, blue, brushed brass



and brushed aluminum. All metal parts are supplied in brushed brass or aluminum. *Harry Gitlin, 917 Third Ave., New York 22, N. Y.*

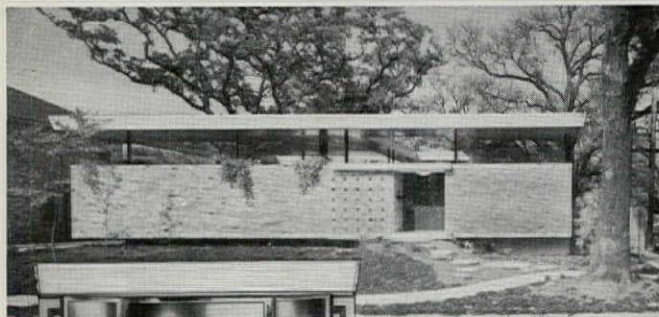


**Trapezoidal Aluminum Windows**

The *Maco-Craft* line of aluminum windows now includes trapezoidal units for gable-end window areas. They are tailored to fit gables of any pitch under 6/12, with the shortest leg of the trapezoid not less than 6 in.; and come completely assembled with jamb, sill, stool and head, ready to be nailed into the rough opening. Full-length horizontal and vertical keys are used to join trapezoidal units to each other and to standard rectangular windows in the *Maco-Craft* line. *Maco Corp., Huntington Ind.*

more products on page 20

**Specify PARKER Cabinets  
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## Dodge Books of current interest —

### THE SELECTION OF RETAIL LOCATIONS

by Richard L. Nelson

A new book which provides the newest trends and techniques in site selection and potential volume analysis for stores, shopping centers, banks, restaurants and other establishments. The author is a noted real estate economist.

Answers your questions on anticipating geographic trends, future of the downtown area, determining the volume potential of an area, rent-advertising ratios, effects of decentralization, compatibility of store types, and many more topics. With this book you can estimate business potential of a site, evaluate its growth capacity, and appraise the influence on the proposed business of other stores in the vicinity.

422 pages, 6 x 9, \$9.00

### A TREASURY OF CONTEMPORARY HOUSES

by the editors of Architectural Record

Here are 50 contemporary houses designed by some of the world's leading architects; the ultimate in quality contemporary design.

Most of the houses are depicted in 10 or more photographs, illustrations and plans. The story behind each house is presented simply in its essentials with no involved technical language.

215 pages, 8 3/4 x 11 1/8, \$5.95

### 82 DISTINCTIVE HOUSES

selected from Architectural Record

On display here are 82 of the finest houses published in *Architectural Record* in the past few years. Each house is depicted in superb interior and exterior photographs which dramatize its design and convey its individuality.

These 82 houses represent a wide range of localities, living habits, personal tastes, and sites. Comprising the last 100 pages are special Time-Saver Standards data for Houses.

437 pages, 8 3/8 x 11 1/8, Illustrated, \$8.50

### STRUCTURES

by Pier Luigi Nervi

Pier Luigi Nervi of Rome draws on over 30 years of experience as architect, engineer, and builder. Contains much valuable information on the properties of concrete and "Ferro-cemento", which was developed by the author and used by him in the construction of some of the largest and most beautiful thin-shell concrete structures in the world.

Alternately practical and philosophical, the book considers such varied subjects as architect-client relations, training of designers and builders, theory of structures, and building in reinforced concrete. Contains photographs of all of Nervi's major works, as well as numerous sketches and plans.

118 pages, 7 1/4 x 9 1/8, \$6.95

### GROUNDS MAINTENANCE HANDBOOK

by Herbert S. Conover

The only comprehensive reference work of grounds development and maintenance. Contains all the detailed information you need to plan, supervise and maintain grounds of every type and size.

It is a big book, and fully illustrated (over 175 illustrations). It consolidates all the needed information on planning, turf maintenance, planting and care of trees and shrubs, equipment selection, control of weeds, insects and diseases, materials specifications, and erosion control. Throughout the book practical, economical methods and materials are stressed.

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### JAPANESE TEMPLES AND TEA-HOUSES

by Werner Blaser

The English edition of a prize-winning Swiss book, profusely illustrated with brilliant photographs (8 in full color), line drawings and plans of classic examples of Japanese architecture. Its thoughtful text examines the social, historical, and spiritual forces which produced this highly defined art, and gives — as a result — a richer, new perspective in which to view all architecture, including our own contemporary work.

Although the text is lucid and analytical, it is the author's intention to let the photographs speak for themselves; in Blaser's own words, "... to suggest how these structures might shadow forth a new spiritual style for the West."

156 pages, 9 1/4 x 12 1/4, \$12.75

### HOW TO MAKE BUILT-IN FURNITURE

by Mario Dal Fabbro

Step-by-step instructions for constructing 102 contemporary built-ins. Indispensable for making any home more livable, beautiful, and spacious with expertly-designed, easily-made built-ins. This practical book presents unique sequence plans and illustrations which virtually eliminate the errors and miscalculations which arise in these projects. Projects can all be built from standard grades of wood using common woodworking tools.

Included are pieces for living rooms, kitchens, bedrooms, play-rooms, attics and cellars. Hundreds of variations and adaptations can be made from these unusual plans, and the book is also an excellent source of data for designing your own built-in projects.

259 pages, 7 1/8 x 9 3/4, \$6.95

### HOW TO BUILD MODERN FURNITURE

by Mario Dal Fabbro

Clear, easy-to-follow instructions for building your own professional quality furniture, plus step-by-step plans for 53 contemporary pieces by a famous furniture designer.

The first section gives instruction in basic woodworking operations, selection of materials, joints, assembly, wood finishing, and upholstery. Standard measurements of all furniture pieces are listed.

The second section presents 53 separate furniture pieces: Hi-fi cabinets, chests, tables, chairs, beds, and many others. Text is brief and clear — unique exploded diagrams do most of the teaching. Each project contains a list of materials, directions for assembling, and several plans and diagrams. There are over 1200 diagrams and drawings in all.

224 pages, 7 1/8 x 9 3/4, \$4.95

### RELIGIOUS BUILDINGS FOR TODAY

by the editors of Architectural Record

Presents 35 new religious buildings, each of which is the work of a gifted architect collaborating with a clergyman and building committee who were not afraid to break with the architectural past. Protestant, Catholic, and Jewish buildings are shown, from all parts of the United States as well as Europe and Asia. Each is shown in brilliant photographs, and plans and drawings.

There are several other sections. One is called "Worship and the Arts". It explores the relationship between eternity and the present, as it pertains to the design of churches. There follow six articles on worship and the art in different traditions — Jewish, Catholic, Orthodox, Episcopal, Reformed and Lutheran. Also contains cogent studies by leading architects, clergymen, and secular authorities. Over 300 excellent illustrations.

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## Products for the House



### Decorator Wall Plates

The new Decorator Series of wall plates includes curved frames in ivory or brown plastic; finely textured metal inserts colored pale gold on one side, silver on the other; and clear plastic inserts which can be backed up with wallpaper, fabric or paint. There are thirteen different inserts designed for use with single, double and triple outlets; single switches; single, double and triple interchangeable devices; telephone plugs and bushings; single, double and triple remote-control switches; and a blank insert. The frames are one-, two-, three- and four-gang. *Wiring Device Dept., General Electric Co., Providence, R. I.*

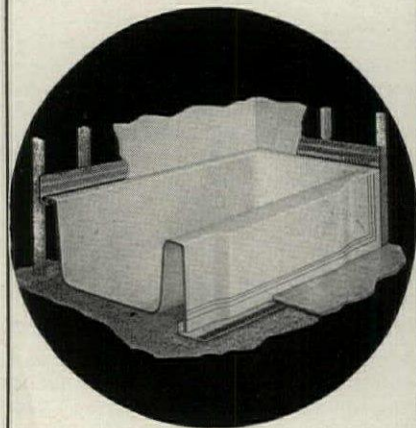


### "Pre-Laid" Parquet Flooring

*Bondwood* hardwood flooring now comes in several parquet patterns pre-laid in large blocks for faster, more economical installation. The 19- by 19-in. units are made up of sixteen smaller squares composed of solid hardwood slats, the whole held intact with face paper which is removed during installation. Joints are flush rather than tongue-and-grooved, and the 5/16-in. thickness gives a wearing surface that can be refinished many times before wearing dangerously thin. Available hardwoods include oak, maple, cherry, beech and walnut. *Harris Mfg. Co., Johnson City 10, Tenn.*

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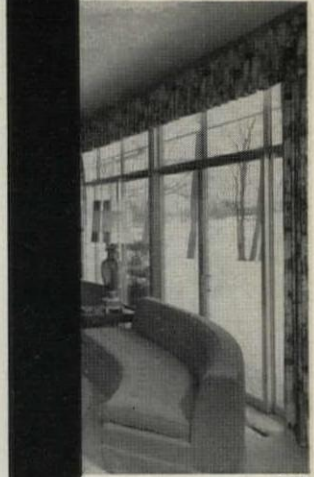
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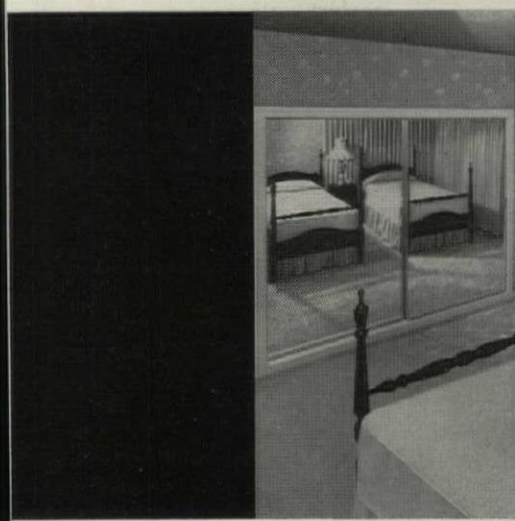
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Three complete Miller aluminum lines: the all-new Series 625 for 5/8" dual glazing; Series 1000 for interchangeable 1" or 5/8" dual and 1/4" single glazing; and Series 250 for single glazing only. Their year-round design features make them practical even for bathrooms, kitchens and dining areas. Frames of sturdy aluminum box sections, "Alumilited" for a permanent, lustrous finish. A continuous double seal of woven wool pile (silicone treated) protects against wind, snow and rain. (Steel frames also available.) Free catalog shows specifications, types, sizes and 1/2 size architectural tracing details.



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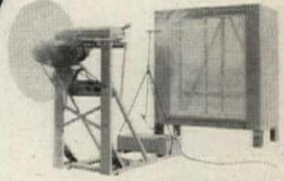


AS WARDROBE DOORS



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Interior by Eleanor Lee, A.I.D.



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For catalogs & dealer, write Miller Sliding Glass Door Co., Inc., 3216-AR Valhalla Dr., Burbank, Calif.

# REFERENCE READING

To inform architects and their clients of the new products and techniques available to them, there annually appear great wealth of literature describing the latest developments in the home-building field. Samples of this "reference reading" are reviewed below and on the following pages—and similar literature can be obtained from the manufacturers of most of the Products for the House described in the section beginning on page 176.

## Oak Floors For Your Home

Presents details on installing strip oak floors over concrete slabs without subflooring, and on installing over conventional joist construction; describes styles, sizes, grades, finishing, etc. 32 pp. Also available is a specification manual on oak floors (A.I.A. 19-E-9). 12 pp. *National Oak Flooring Mfrs. Assn., 814 Sterick Bldg., Memphis 3, Tenn.*

## How to Have Modern Carefree Interiors With Marlite

Illustrates in color and gives installation tips on prefinished wall panels, planks, and blocks. 16 pp 25¢. *Marshall Wall Products, Inc., Dover, Ohio*

## Frigidaire Idea Kitchens 1959

Presents three kitchen layouts, including floor plans, illustrations, lists of appliance models and equipment manufacturers. 8 pp. *Frigidaire Div., General Motors Corp., Dayton 1, Ohio*

## The Metalbestos Chimney

(A.I.A. 14-E-3) Gives specifications and ordering information on a prefabricated chimney designed for use with any fuel; illustrations of the chimney and fittings are included. 12 pp. *Metalbestos Div., William Wallace Co., Belmont, Calif.*

## Bathroom Beauty

Illustrates plumbing fixtures in several colors compatible with various decorating schemes; fittings are also shown. There is a chart suggesting tile, wall, and other colors to be used with specific fixture colors. 20 pp. *Briggs Mfg. Co., Warren, Mich.*

## New "Family-Proof" Paneling From Georgia-Pacific

Illustrates in color and describes various kinds of coated hardwood paneling. 12 pp. *Georgia-Pacific, Equitable Bldg., Portland, Ore.*

## Facts on Fabrique

Describes *Fabrique*, a vinyl-impregnated, non-woven fabric for wall coverings that is sold in different types of colors and finishes. 4 pp. *The Birge Co., Inc., P. O. Box 3042, Buffalo 5, N. Y.*

## Ruberoid Building Products Catalog

Shows and describes types of shingles, sidings, insulations, roll roofings, building papers, roof coatings, etc. 12 pp. *The Ruberoid Co., 500 Fifth Ave., New York 36, N. Y.*

## Certi-Split Manual of Handsplit Red Cedar Shakes

(A.I.A. 19-D-1) shows application techniques and uses for handsplit cedar shakes as roof and wall coverings; many photographs and sketches are included. 32 pp. *Red Cedar Shingle Bureau, 5510 White Bldg., Seattle 1, Wash.*

## How to Protect Your Home From Termites

Gives detailed illustrated information on damage done by termites and methods used by *Terminix* to combat and prevent it. 24 pp. *E. L. Bruce Co., Memphis 1, Tenn.*

## Pella Wood Folding Doors

Illustrates different types of applications of wood folding doors in houses. 6 pp. *Rolscreen Co., Pella, Iowa*

## Solardomes Designed for a Brighter Lifetime

(A.I.A. 26-D-91) Illustrates, describes, and gives specifications for plastic skylights and ceiling units. 4 pp. *Solardome Div., Klise Mfg. Co., 50 Cottage Grove, Grand Rapids 2, Mich.*

## Make Your Home Distinctive With Decorative Glass

Illustrates sample residential uses of various types of textured and patterned glass. 20 pp. *Mississippi Glass Co., 88 Angelica St., St. Louis 7, Mo.*

## Installation and Specification Data

... *For Vinyl and Rubber Floorings* (A.I.A. 23-G) gives detailed information on characteristics, types of use, etc. including tables. 14 pp. *Amtico, Vinyl & Rubber Flooring Div., American Biltrite Rubber Co., Inc., Trenton 2, N. J.*

## New Ideas in Tile

Includes color illustrations of sample rooms using tile in different ways. 12 pp. *American-Olean Tile Co., Lancaster, Pa.*

## Home is Where the Hearth Is

Describes recommended construction of fireplaces and chimneys using clay flue lining. 6 pp. *Clay Flue Lining Institute, 161 Ash St., Akron 8, Ohio*

## For an Exciting New Decorating Idea

... *Sliding Mirror Doors* contains information on *Fleetlite* mirror doors, including installation and specification data. 4 pp. *Fleet of America, Inc., 2015 Walnut Ave., Buffalo 25, N. Y.*

## Follansbee Seamless Terne Roofing

(A.I.A. 12-A-31) Gives specifications and illustrations of various applications of terne roofing (copper-bearing strip steel coated with a lead-tin alloy). 8 pp. *Follansbee Steel Corp., Follansbee, W. Va.*

## Catalog of General Electric Remote-Control

... *Wiring Components* (A.I.A. 31-D-47) illustrates and describes the switches, boxes, plates, etc., used in 110-volt flexible remote-control electrical systems. 12 pp. *Wiring Service Dept., General Electric Co., Providence 1, R. I.*

## Livability Unlimited With Homes and Products of Wood

Is a color-illustrated booklet showing wood in use in many different ways in houses. 20 pp. *National Lumber Mfrs. Assn., 1319 18th St., N. W., Washington 6, D. C.*

## Decorative and Functional Hardware

Various folders show lockset designs, functions, and finishes; also decorator, forged iron, provincial, and cabinet hardware groupings. *Medalist Hardware Co., National Lock Co., Rockford, Ill.*

more literature on page



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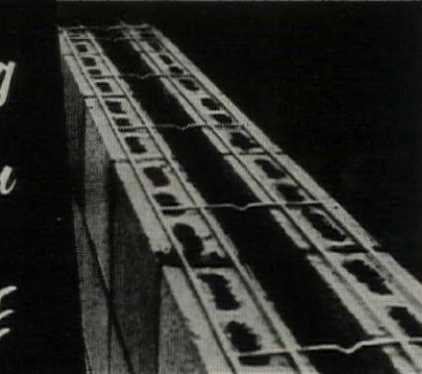
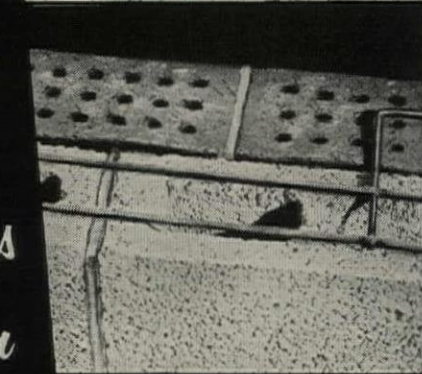
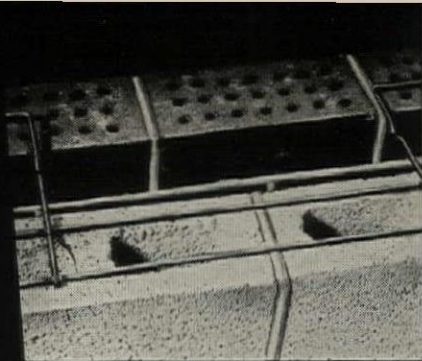


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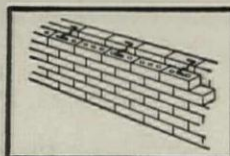
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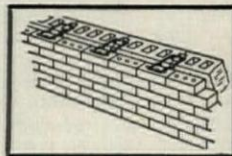
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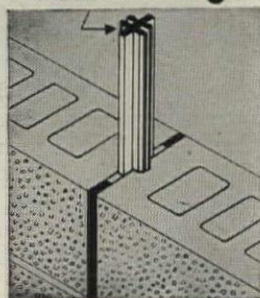
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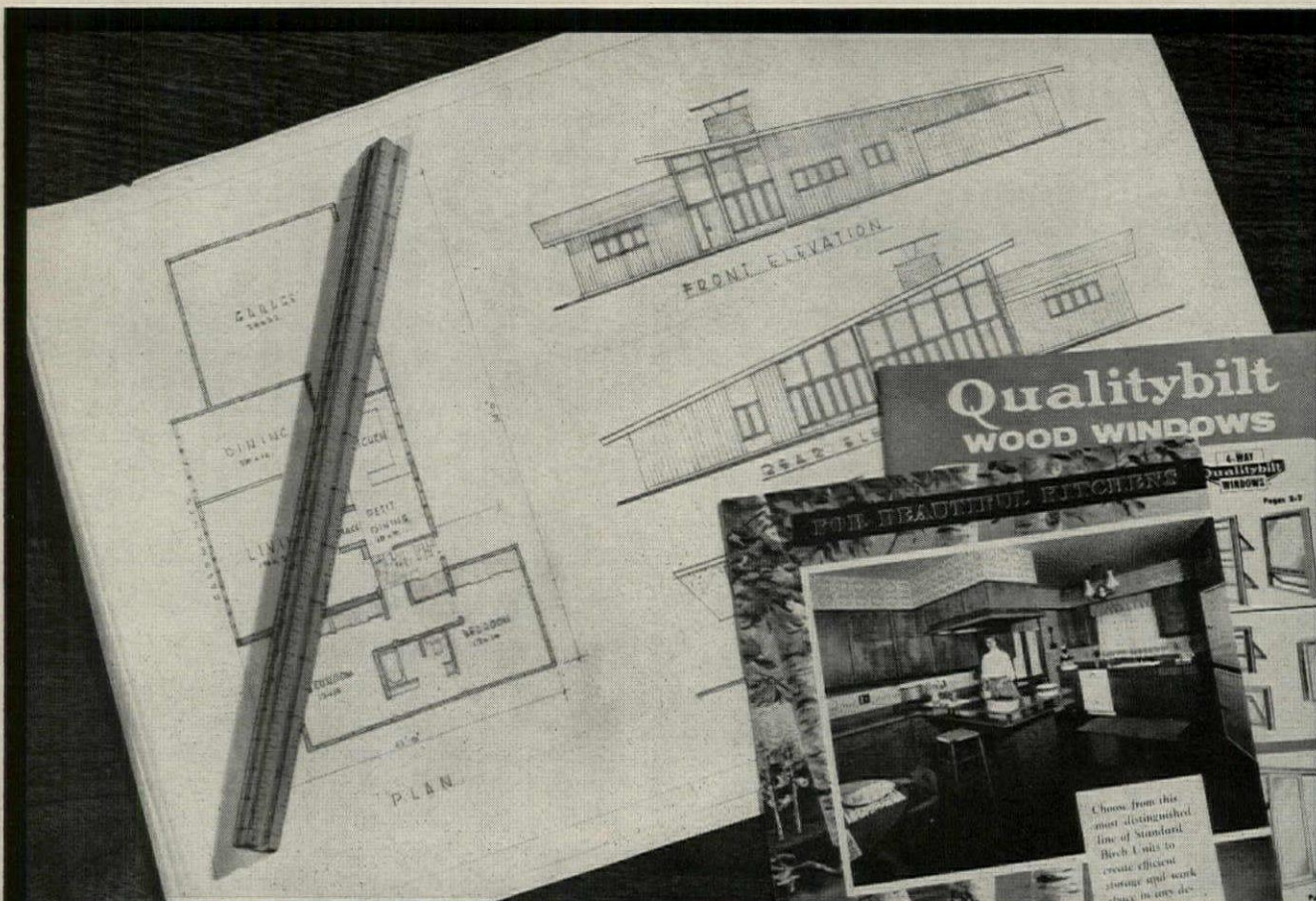
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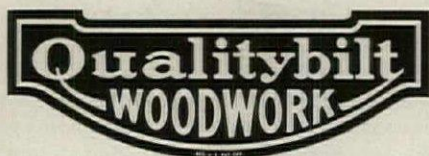
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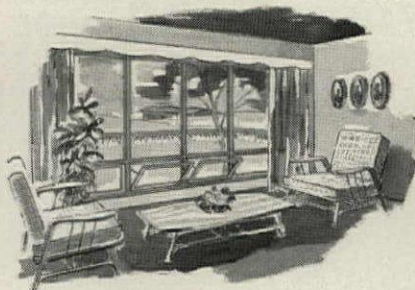
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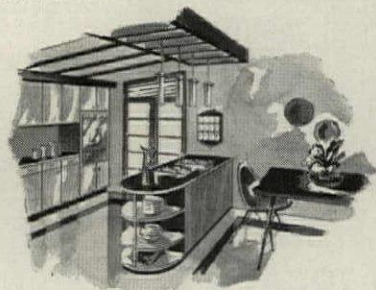
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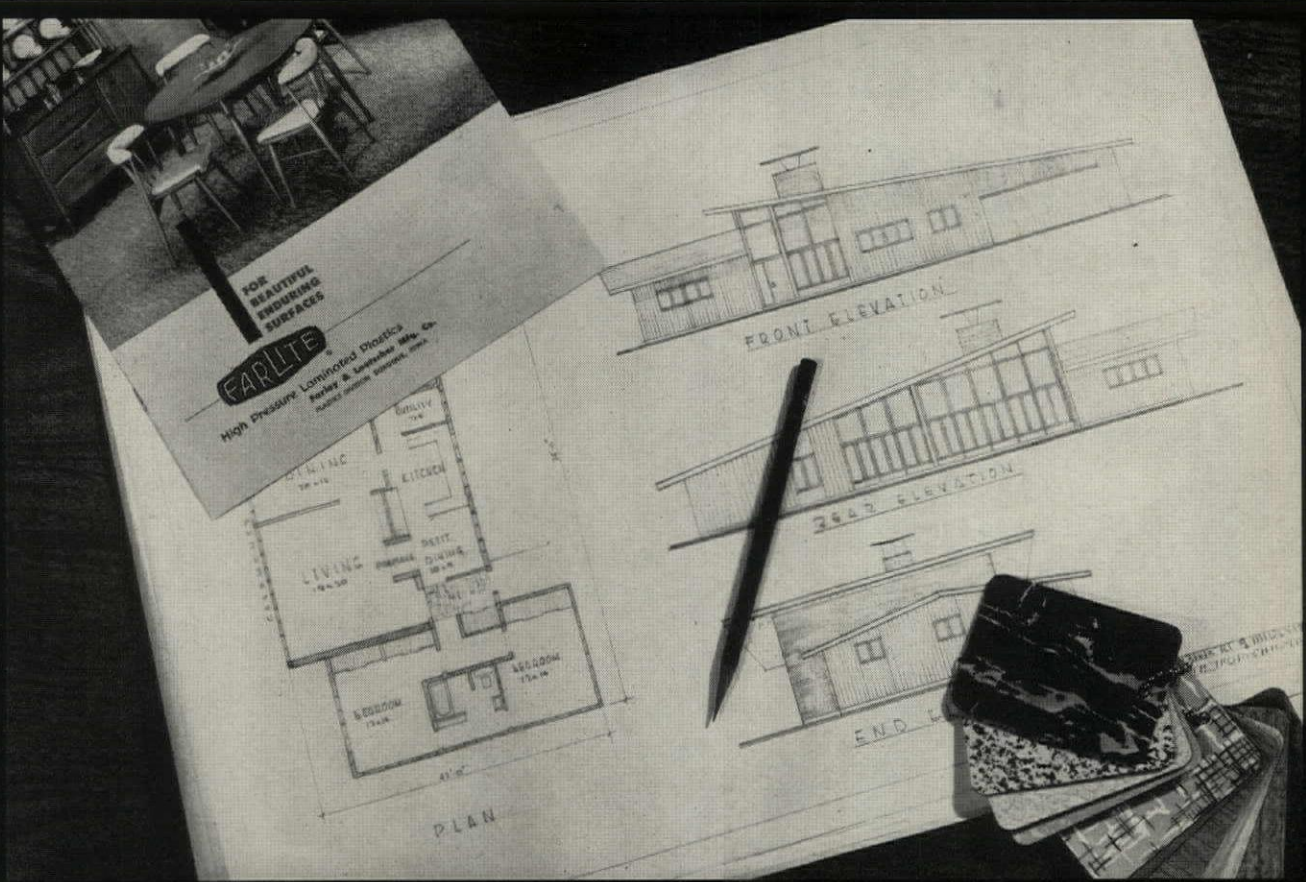
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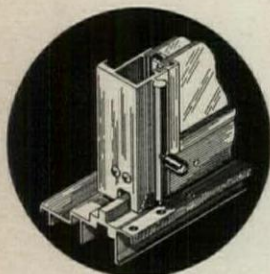
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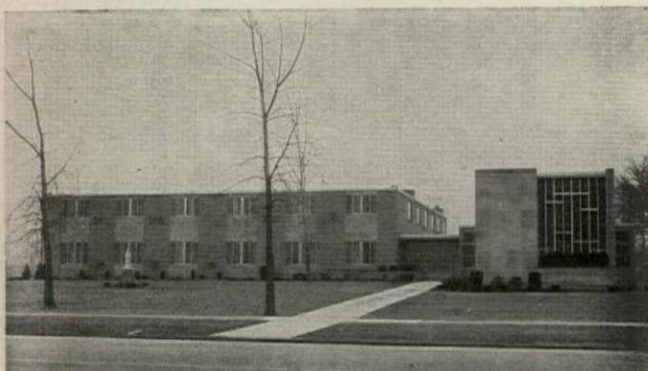
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## Reference Reading

### How to Plan a Trend-Setting Kitchen

Kitchen layouts using built-in equipment are described and illustrated in this booklet that shows actual kitchens. 16 pp. *Revco, Inc., Deerfield, Mich.*

### 101 Home Ideas

Includes a general discussion of lumber grades, paneling patterns, and the use of color and surface finishes with wood. 24 pp. *Western Pine Assn., Yeon Bldg., Portland 4, Ore.*

### Vina-Lux Color Style Handbook

Illustrates styles and colors available, shows suggested designs and installations, and gives detailed information on specifications, characteristics, and maintenance. *Azrock Floor Products Div., Uvalde Rock Asphalt Co., Frost Bank Bldg., San Antonio, Texas*

### The Weldwood Catalog

(A.I.A. 19-F) Illustrates and describes in detail *Weldwood* plywoods and other woods of all kinds, for all uses. 34 pp. *U. S. Plywood Corp., 55 W. 44th St., New York 36, N. Y.*

### Kentile Asphalt Tile

Shows in color available patterns and types of *Kentile* asphalt floor tiles. 16 pp. *Kentile, Inc., 58 Second Ave., Brooklyn 15, N. Y.*

### St. Charles Custom Kitchens

Suggests kitchen arrangements in traditional, contemporary, and off-the-floor varieties and illustrates them in color. 6 pp. *St. Charles Kitchens, St. Charles, Ill.*

### Windows: Removable and Awning Type

Several brochures are available that describe and illustrate removable (for cleaning) *R.O.W.* wood windows, also awning-type, gliding, and picture windows. An installation manual is also available. *R.O.W. Sales Co., 1365 Academy Ave., Ferndale 20, Mich.*

### The Built-In Vacu-Flo Power Vacuum System

(A.I.A. 35-J-1) Explains and illustrates the *Vacu-Flo* system of centrally powered vacuum cleaning for new and existing houses; the hose is plugged into convenient wall outlets connected by piping to the vacuum unit and receptacle away from the living area. 4 pp. *H-P Products, Inc., 510 W. Broad St., Louisville, Ohio*

### Capri All-Aluminum Sliding Glass Doors

(A.I.A. 16-E) Illustrates and gives specification details on three types of sliding glass doors. 8 pp. *T. V. Walker & Son, Inc., P. O. Box 547, Burbank, Calif.*

### Hardboard Ideas

Gives ideas for construction and remodeling using the *Silvatek* line of hardboards. 4 pp. *Silvatek Products Div., Weyerhaeuser Timber Co., Tacoma, Wash.*

### Showergon Multi-Station Shower Fixtures

(A.I.A. 29-H-3) Shower fixtures for institutional and industrial use are illustrated and described in this catalog. 12 pp. *Logan Mfg. Co., Glendale, Calif.*

### Fine Vitreous China Plumbing Fixtures

This catalog of the *Case* line includes color chips showing the 49 colors (plus black and white) that are available. 28 pp. *Case Mfg. Corp., 247 Delaware Ave., Buffalo 2, N. Y.*  
*more literature on page 218*

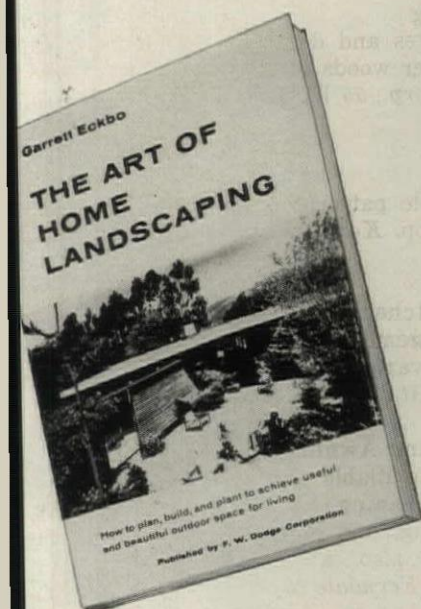
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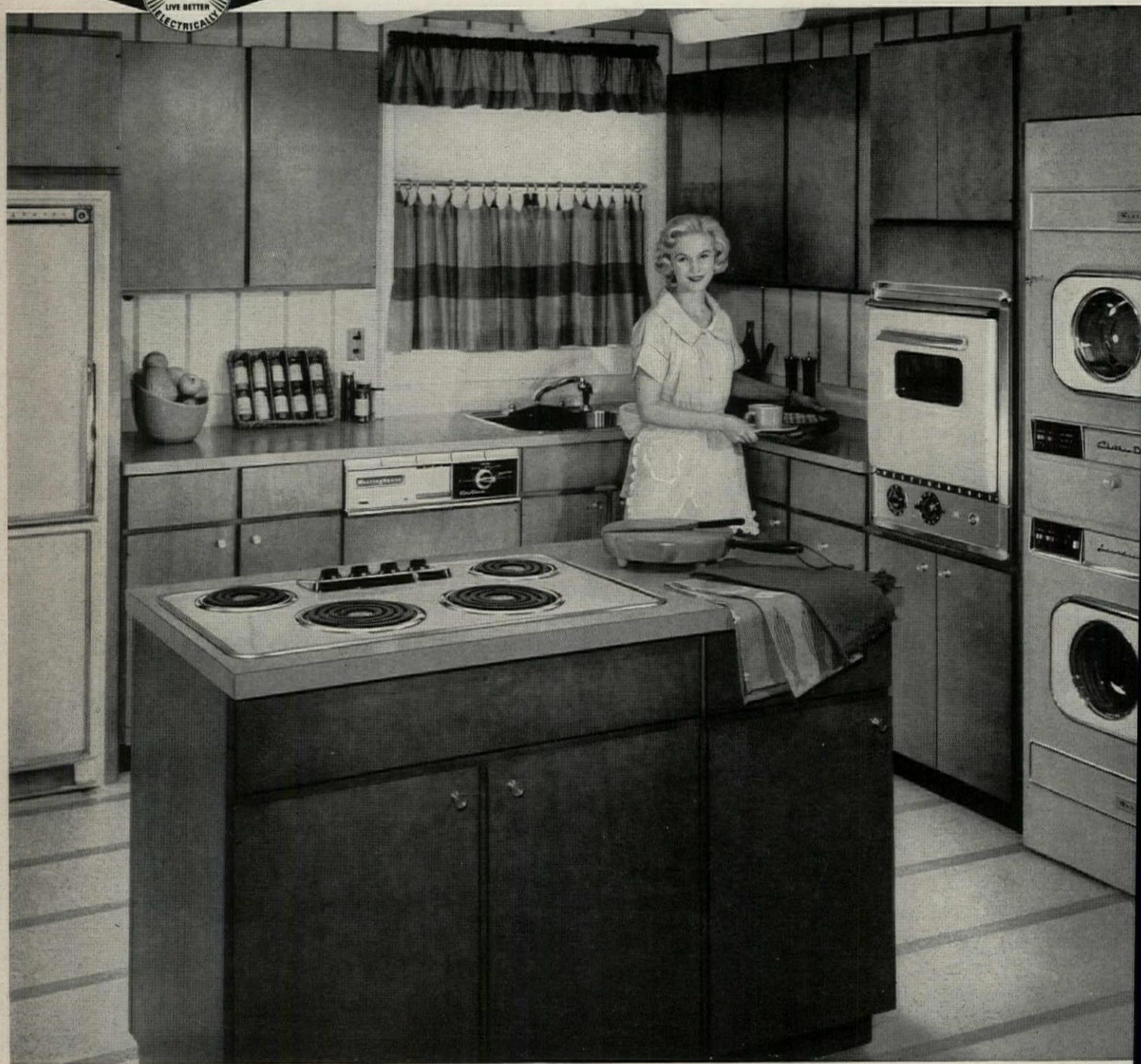
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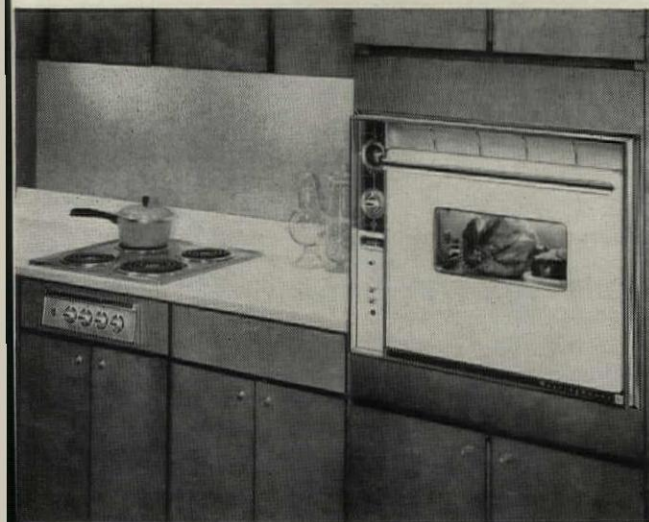
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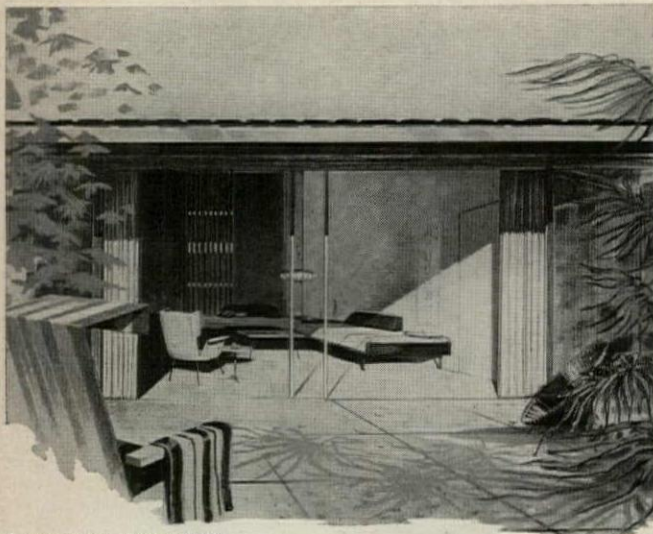
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Reference Reading

**Color for Harmonious Living**

Shows and explains the full color wheel (primary, secondary, tertiary) and explains how to select a calibrated color scheme by using the wheel. Gives general decorating color tips. 32 pp. 10¢. *Pratt & Lambert, Inc., 75 Tonawanda St., Buffalo 7, N. Y.*

**Qualitybilt Glider**

Describes and gives sizes, details, and installation information on horizontal slide windows. 4 pp. *Farley & Loetscher Mfg. Co., Dubuque, Iowa*

**Nothing Better Under the Sun:**

... *Whitestone Roofing Marble* illustrates typical applications of marble chips for roofing and gives specifications and analysis. 4 pp. *Willingham-Little Stone Co., 1323 Fulton National Bank Bldg., Atlanta, Ga.*

**The Door to More Spacious Living**

Shows ideas for garage planning, such as adding hobby and storage space, driveway planning, materials, etc. 20 pp. 25¢. *Crawford Door Co., Hoover Rd., Detroit 5, Mich.*

**Understanding High Fidelity: Stereo Edition**

Provides detailed information on the theory of high fidelity and the practice of home installation, including stereophonic systems. All types of equipment are described, and a glossary is included. 64 pp. 25¢. *David Bogen Co., P.O. Box 500, Paramus, N. J.*

**Comfort Starts With CareySpun**

Describes *CareySpun* home insulation and gives installation tips. 8 pp. *Philip Carey Mfg. Co., Lockland, Cincinnati 15, Ohio*

**Challenger Locks**

(A.I.A. 27-B) Includes specifications, a table of functions, cutaway drawings, and color illustrations of locks and escutcheons. 12 pp. *Challenger Lock Co., 4865 Exposition Blvd., Los Angeles 16, Calif.*

**Save on the Homes You Build**

Contains information on types of tube for plumbing, heating, and air conditioning systems; cost comparisons are included. The economical "wet-wall" plan is illustrated. 24 pp. *Chase Brass & Copper Co., Waterbury 20, Conn.*

**Idea Kitchens and Kitchen Ideas**

Illustrates in color actual kitchens using *Coppes Nappanee* custom-built hardwood cabinets, shelves, counters, etc. Planning ideas are given, and 30 typical units are also shown. 28 pp. *Coppes, Inc., Nappanee, Ind.*

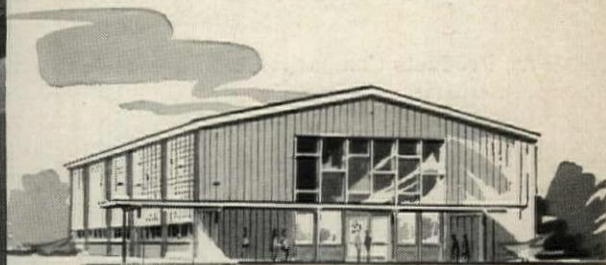
**Fir Plywood Roof Sheathing Manual (A.I.A. 19-F)**

Discusses the functions of plywood sheathing in general explains the characteristics of its types and grades, give deflection, concentrated load, and other engineering data for various spans and thicknesses, and recommends nailing and stapling schedules. 32 pp. *Douglas Fir Plywood Assn., 1119 A St., Tacoma 2, Wash.*

**How to Build an Extra Room**

Includes step-by-step illustrated instructions showing how floor tile, ceiling panels, wall plank, and insulation can be used to convert attic or basement space into room. 24 pp. 25¢. *Johns-Manville, 22 E. 40th St., New York 16, N. Y.* more literature on page 22





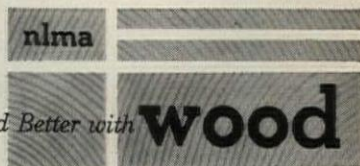
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# INDEX TO ADVERTISED PRODUCT INFORMATION

AA Wire Products Company ...	211	General Electric		Parker Co., Charles .....	202
American Biltrite Ruber Co. . .	63-64	Co. ....	39, 53 to 56, 186	Pomona Tile Mfg. Co. ....	61
American-Olean Tile Company .	43	G E Laminated Products Dept. .	186	Portland Cement Assoc. ....	57
American Telephone &		Georgia-Pacific .....	41	Pratt & Lambert, Inc. ....	12
Telegraph Co. ....	14	Grant Pulley & Hardware Co. . .	29	Precision Parts Corp. ....	202
American-Standard Plumbing &		Harris Mfg. Co. ....	30	Raynor Mfg. Company .....	46
Heating Division .....	166-167	Haws-Kramer Flush Valves,		Red Cedar Shingle Bureau ....	35
American Window Glass Co. ....	16	Div. of Haws Drinking Faucet		Republic Steel Corp. ....	163-164
Azrock Floor Products Division	51	Co. ....	28	Reuten, Inc., Fred .....	36-37
Bell Electric Co. ....	180	Hobart Manufacturing Co. ....	62	Revco, Inc. ....	31
Bell Telephone System .....	14	Hotpoint, Div. of General		Rilco Laminated Products, Inc. .	38
Birge Company, Inc. ....	196	Electric Co. ....	39	Rolscreen Company .....	4th Cover
Briggs Manufacturing Co. ....	33	International Oil Burner Co.,		Rowe Manufacturing .....	40
Bruce Co., E. L. ....	161	Electric Heating Div. ....	196	R. O. W. Sales Co. ....	8
Burnham Corporation .....	50	Kentile, Inc. ....	27	Ruberoid Co., The .....	17 to 20
Burr-Southern Div. ....	200	Klise Mfg. Co. ....	204	St. Charles Mfg. Co. ....	187
Cabot Inc., Samuel .....	42	Koppers Company, Inc. ....	183-184	Shell Chemical Corp. ....	174-175
California Redwood Assn. ....	171	Lennox Industries, Inc. ....	198-199	Shower Door Co. of America ..	162
CARADCO, INC. ....	194-195	Lucke Inc., William B. ....	208	Sliding Glass Door & Window	
Carrollton Mfg. Company .....	48	Majestic Co., Inc. ....	182	Inst. ....	218
Case Mfg. Corporation .....	179	Marchand, Inc., A. ....	200	Stylon Corporation ..	222-3rd Cover
Ceratile Corp. ....	201	Marsh Wall Products .....	189	Talk-A-Phone Co. ....	192
Chrysler Airtemp Div. ....	32	Miller Sliding Glass Door Co.,		Textron Metals Co. ....	169
Crawford Door Co. ....	60	Inc. ....	209	U. S. Plywood Corporation ....	47
Deft Wood Finish .....	208	Mueller Brass Co. ....	197	Uvalde Rock Asphalt Company .	51
Desmond Bros. ....	208	Mutschler Brothers		Vance Industries, Inc. ....	34
Dodge Books ....	190, 204, 207, 215	Company .....	205-206	Walker & Son, Inc., T. V. ....	191
Dur-O-Wal Products, Inc. ....	193	National Lock Co. ....	177	Wallace Co., William .....	44
Farley & Loetscher Mfg. Co.	212-213	National Lumber Manufacturers		Wesix Electric Heater Company	188
Metals, Inc., J. W. ....	192	Assoc. ....	219	Western Pine Association ...	22-23
Fleet of America, Inc. ....	45	National Manufacturing Co. ....	173	Westinghouse Electric Corp.	
The Flintkote Co. ....	52	National Oak Flooring Mfrs.		Major Appliance Division	216-217
Flintridge Corp. ....	214	Assoc. ....	58-59	Micarta Division .....	18
Flynn Mfg. Co., Michael .....	165	National Pool Equipment Co. . .	185	Weyerhaeuser Sales Company .	49
Follansbee Steel Corporation ..	221	New England Lime Co. ....	203	Willingham Little Stone Co. ...	1
Frigidaire Div., G. M. C. ....	3 to 6	Nutone, Inc. ....	2nd Cover	Wood Conversion Company ....	2
				Wood-Mosaic Corp. ....	17

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## Reference Reading

### Heating and Air Conditioning With Water

... For Year 'Round Comfortable Living. 16 pp. Also available: *What You Should Know About Air Conditioning Your Home for Summer Cooling and Winter Heating*. 12 pp. Both describe and illustrate principles and equipment. *National-U. S. Radiator Corp., Johnstown, Pa.*

### The Full Story of Full Insulation

Describes the results of experience with 70 fully insulated, centrally air conditioned test houses; discusses insulation in general. 16 pp. *Owens-Corning Fiberglas Corp., Toledo 1, Ohio*

### Sargent Residential Hardware

Describes and illustrates locks, exit devices, door closers, and other hardware. 18 pp. *Sargent & Co., New Haven 9, Conn.*

### Insulating Board and Hardboard Catalog

Describes physical characteristics, presents technical findings, and includes a columnar table giving sizes, thicknesses, edges, etc. 32 pp. *Simpson Logging Co., 2301 N. Columbia Blvd., Portland 17, Ore.*

### Inspiration Lighting

This catalog describes and illustrates *Moe* lighting fixtures, including some newly introduced ones. 48 pp. *Thomas Industries, Inc., 410 S. 3rd St., Louisville 2, Ky.*

### Teco Trip-L-Grip Framing Anchors (A.I.A. 19-B-5)

Gives illustrated design information and applications of *Trip-L-Grip* framing anchors, used in framing and other wood-construction connections. 8 pp. *Timber Engineering Co., 1319 18th St., N. W., Washington 6, D. C.*

### The Story of Modern Home Financing

Explains terms and procedures involved in house financing; gives advice on obtaining a mortgage. 24 pp. *U. S. Savings and Loan League, 221 N. LaSalle St., Chicago 1, Ill.*

### Figure on Fasco (A.I.A. 30-D-1)

Illustrates in color the *Fasco* line of power range hoods, bath and utility room ventilators, kitchen ventilators, and accessories. 12 pp. *Fasco Industries, Inc., Rochester 2, N. Y.*

### Facts and Data on Resilient Floors (A.I.A. 23-G)

Discusses types of resilient floors, explains gauge selection, light reflectance, etc.; illustrates in color patterns available in *Congoleum-Nairn* floorings of all types; includes specifications. 44 pp. *Congoleum-Nairn, Inc., Kearny, N. J.*

### Privazoning: the New Concept of Space

... in *Homebuilding* illustrates and describes the *Privazone* plan for houses which involves converting bedrooms into bedroom-lounges, providing each family member with his own "Dressatory" (personal dressing room), and compartmenting bathrooms; thus each "Dressatory" has its own toilet, and a tub-shower room is between each two "Dressatories." 64 pp. \$3. *Privazone Council of America, Associations Bldg., Washington 6, D. C.*

### High Fashion Wood Interiors

Contains illustrations and information on *Loc-Wall* wood wall paneling, provided with factory-attached furring strips, and available in several styles and woods. 6 pp. *Weyerhaeuser Sales Co., St. Paul 1, Minn.*

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