PREFACE, by Herbert L. Smith Jr.

TWENTY HOUSES OF THE YEAR

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Development House for Stoneson Development Corporation, Millbrae, California. FISHER-FRIEDMAN ASSOCIATES—ROBERT J. GEERING ASSOCIATE, Architects

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AIR-CONDITIONING THE WHOLE HOUSE

Some of the things to watch out for, and some de luxe features to consider, when taking this major step

by Henry Wright, Regents' Distinguished Professor of Environmental Technology, Kansas State University

Not long ago, home air conditioning was a novelty. Any sort of cooling device was welcome if it provided relief from the heat. The basis of comparison was the sweltering outdoors; since air-conditioned space was manifestly more comfortable than that, no one thought of weighing it against perfection.

With experience, however, comes sophistication. After a couple of summers in the "room with the air-conditioner" we get to wondering if a confined, catch-as-can existence, punctuated by occasional dashes to other parts of the house, is really worth it. Those with house-wide cooling learn that even it has its shortcomings. Performance may be spotty, operation noisy, trapped air unpleasantly reminiscent of yesterday's meals or father's after-dinner cigar. On close acquaintance, the air-conditioned house sometimes turns out to be a better place to visit than to live in daily.

All of which may raise the question, in the minds of those about to build or remodel, of whether such defects can be avoided. Is every air-cooled Utopia bound to have flaws? How can we be sure of satisfaction? An air-conditioning system which becomes an integral part of a house is no longer just an appliance; it is a long-term investment which costs as much as a new car and must be lived with a good deal longer. When we buy a car, most of us have a pretty good idea of what we're buying and why. We don't all buy Cadillacs, but we know what we're likely to be getting and what giving up when we make our selection.

How can we be sure the same will apply to our choice of air conditioning?

We have other reasons for wanting to know about air conditioning. Those who do, say that air conditioning may affect, should affect many aspects of house design and construction. Some houses are hard to cool, others easy. The difference may influence not only the cost of an air-conditioning system but also its cost of operation. If house design can save money on the cost of owning and operating air-conditioning equipment, and improve its performance to boot, it is silly to ignore this. And what about the opposite consideration? Does air conditioning make a house easier to arrange, more convenient to live in, if we design in a way that takes advantage of it?

Air Conditioning Is A Blessing If Properly Designed

Enslie Oglesby, a Dallas architect who has had a good deal of experience designing air-conditioned houses for exacting clients, thinks air conditioning will have a profound effect on house design.

He once told me that in his opinion nothing more important had happened to houses in recent years than air conditioning's advent.

"It changes the whole program," he asserted, using the word in the architect's sense of the summation of all of the factors on which a design is based.

What Mr. Oglesby had in mind was primarily the effect which planning for cooling breezes has had on room arrangement, window placement, even ceiling height. The non-air-conditioned

continued on page 9
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house anywhere must be planned to admit cooling breezes, for summertime comfort; this is particularly true in hotter parts of the country like Dallas. Making the most of summer breezes not only involves the orientation of the house, but also the location of rooms and even the placement of furniture within rooms. Windows must be arranged to encourage air-flow where it will do the most good, close to the floor. Interior courts, or example, be may be useless from a breeze-cooling standpoint; in an air-conditioned house this can be ignored.

It is not necessary to assume a closed-p existence all year round to grant the orce of this argument. We usually open an window because it’s nice outside, not to produce a perceptible breeze. We need breezes to cool us off only when it’s really hot, and when it is really hot, we have air conditioning it is likely to be turned on and the windows closed. In fact, there is an advantage to being able to throw open the windows without getting a breeze, since this also means without papers being blown about or dirt or rain blowing in.

Watch Out For Sol

While air conditioning enables us to be less exacting with respect to breezes, it requires us to be more exacting with respect to the sun. If a good deal of sun gets into a non-air-conditioned, but visibly ventilated, house, it may be carried out again with no one the wiser. When air-conditioned, on the other hand, we must close the house and limit only enough air to keep it free of fumes. Any sun heat that gets in must be pumped out through the air-conditioning machinery, and compared to old sol, the biggest air-conditioner is puny deade.

The quantity of solar energy which falls on a single beach umbrella is equal to one horsepower. Let it in through a skylight of the same size—about 3 feet square—and you will need window air-conditioner of the largest available size just to pump it out again. So it’s all right to put a row of such skylights in a room, provided you’re prepared to put in the same number of large window air-conditioners and pay for their operation. Otherwise, you had better not, unless you incorporate some other sun shielding.

These two factors should make the re-conditioned house—started from scratch—a different animal from its non-air-conditioned predecessor. And in remodeling an existing house or adding conditioning, remember that providing sun shields or eliminating heat-inviting openings will probably be cheaper than buying air-conditioning equipment to make up for their effect. And save money on operating expense, besides.

A Short Course in Refrigeration

Most people—including housewives—have a better idea of what makes a car go than of what makes an air-conditioner cool. And since a good many of the questions involved in the selection of air-conditioning equipment depend on a general understanding of the refrigeration process, let’s see if this can’t be acquired fairly painlessly. (Those who understand it already may skip to the next heading.)

Take, for example, that wonderful little machine you probably first encountered in your doctor’s office 10 or 15 years ago—the window air-conditioner. It contains all of the essential parts of an air-conditioning system in an easy-to-understand form; let’s place it, figuratively, on the examining table.

Even with the cover off, it’s less bewildering than, say, an automatic washer. In the middle there’s an object which looks like an up-ended bucket: this is the compressor; it does most of the work and has its motor right in the same case, so that the moving parts may be sealed within the hermetic system containing the refrigerant.

Its function, not surprisingly, is to compress the refrigerant, which at this stage of the process is a gas. When compressed, it becomes quite hot, and because it is so hot, can readily be cooled off in outdoor air—even air that is sweltering, from our point of view. This is the essential “trick” of the refrigeration process, since once the refrigerant has given up its heat in this way it becomes, so to speak, “heat hungry,” and capable of absorbing heat from whatever we want to cool—air, water, or six-packs of calorie-free cola.

First, however, it must give up its heat. This is accomplished by piping it to a finned coil, which looks a good deal like an auto radiator, in the outdoor part of the air-conditioner. Like an auto radiator, it has a fan to move outdoor air over the fins and carry away the heat. This fan blows air outwards through the coil and draws air to replace it through openings on the opposite side of the unit’s metal cover.

When cooled sufficiently, the refrigerant condenses into a liquid and dribs into a reservoir at the base of the coil. This liquid, which has acquired the potentiality of absorbing unwanted heat, then flows through a tube to a coil on the room side of the unit. Like the one the liquid has just left, this coil resembles a car radiator. Its fan, however, is usually of the “squirrel cage” variety rather than the propeller type because such fans operate more quietly and are somewhat easier to live with within a confined space.

When the compressed, liquid refrigerant is released into this second coil it becomes very cold. Meanwhile the fan draws a certain amount of air from the room, and a good deal less from outside the window for ventilating purposes, and blows the mixture through the coil and on into the room. It, too, becomes cold, which is what the whole process is for. The effect is equivalent to opening a window on a cold day, with a stiff breeze blowing your way.

If any of this explanation passed by without your quite catching it, just re-continued from page 7
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member that the air-conditioner draws in room air and blows it out cold at one end, while at the other it draws in outdoor air and blows it out hot. And that must be allowed to do the one thing it must be allowed to do.

House-wide air-conditioners are essentially similar, except that they deliver cooled air to the various rooms through ducts. Also, in recent years it has become common to divide their machinery, putting the cooling coil in the network next to the furnace, and the compressor and condenser (similar to being outdoor parts of a window air-conditioner, only larger) in a separate outdoor cabinet. Among other advantages, this means that the noisier machinery is outdoors. Naturally, it should not be located under a neighbor’s bedroom window, especially if his house is not air-conditioned and he must keep his windows open in hot weather.

**Word About Ventilation**

Window units make at least a gesture in the direction of admitting ventilation; house-wide systems usually do not. The justification given for this is that the air will leak in anyway.” It will, and this is much more likely with a house-wide system than with an air-conditioner serving a single room. But the key to gain control of ventilation, with air conditioning, is to bring in the proper amount of outdoor air through the poling unit (about 20 per cent of the amount being circulated) and then to provide planned points for a part of it to get out again, through bathroom vents and a kitchen range hood. When the range-hood fan is actually operating, it may exhaust somewhat more air than is being brought in this way, but for the balance of the time there will be a excess, which will be squeezed out and the windows and doors.

Provision of planned ventilation of this type is not very expensive, and can contribute more to satisfaction with house-wide air conditioning than almost anything else. Make it!

*That About Dehumidifying?*

Our explanation of the window unit made no mention of dehumidification. His was deliberate. Dehumidification is important to the quality of air conditioning that it deserves separate handling. More often than not, it is the factor which distinguishes good air conditioning from bad.

Dehumidification is bound to occur with all types of air conditioning involving refrigeration. Whether it occurs to just the desired extent depends on various refinements which are not hard to grasp once the fundamental process is understood.

If you have a window unit handy, and it is running, and you can peer through the decorative grillwork where the cold air is coming out, you will probably see drops of water running down the vertical fins of the cooling coil. In sticky weather, the quantity involved will surprise you—air conditioners really do take a lot of moisture out of the air. This moisture is literally squeezed out of the air as it cools; it must be squeezed out whenever cooling takes place, unless the air is quite dry to begin with. In window air-conditioners, if all goes well, it accumulates at the bottom of the coil, drains to the outer part of the unit, is picked up by the outer fan and blown onto the condenser, and evaporates. If all does not go well, and the unit is above a sidewalk, it may drip onto passers-by and cause a certain amount of annoyance.

Our principal concern, however, is with the occupants of the conditioned space. To the extent that cooling of the air results in its dehumidification, this is almost bound to be in their interest, since what is called the “apparatus dew point” of all ordinary air-conditioning equipment is such that it cannot produce “over-dehumidification”—only enough or not enough. When not enough dehumidification takes place, the air acquires a “clammy” feeling that is faintly unpleasant.

Boiled down, this means that since it is hard to cool air without dehumidifying it, under the right circumstances we can take dehumidification for granted. The trouble is, it is also difficult to dehumidify air without cooling it.

When “It isn’t the heat, it’s . . .”

New Orleans, on Mardi Gras, is balmy and gay. Shortly after Lent, however, it tends to get a bit damp, as does most of the real estate bordering the Gulf of Mexico. And in the spring and fall, it gets uncomfortably humid before it gets hot, creating a problem which ordinary air conditioning is not equipped to solve.

The shortcoming of the typical air-conditioner in this situation—whether a lowly window unit or a de luxe house-wide system, is that it cannot dry the air without also making it cold. And if the outdoor air is excessively moist and not very hot, it may be cooled too much. Typically, this leads to much pushing up and down of the thermostat: first it is pushed down because someone is hot even though the room is not, then it is pushed up again because someone gets cold. The happy medium is hard to find because there is none.

**Horse Sense Finds a Way**

If the air-conditioner can’t make the air dry enough without making it too cold, what can we do about it? The gentleman with the slightly dazed expression is right! He just invented “re-heat.”

Re-heat is exactly what it sounds like: First you cool the air, to wring the moisture out of it, then you heat it back to a comfortable temperature. It is the only fully satisfactory answer to the situation that exists in Bayou country and to a lesser extent on the banks of the Potomac.

Re-heat is not available as standard equipment with any of the nationally advertised home air-conditioners. But it can be added to such a system by putting some type of heating coil following the cooling coil, or by putting thermostatically-controlled heating coils behind the registers where cooled air is delivered to the rooms. The latter arrangement has the advantage of providing room-by-room temperature control in the summertime—really a “must” for thoroughly satisfactory performance of a housewide system. Heat for the first type of coil might be provided by a small water heater and that for the second by electric-resistance elements.

For ordinary climates, a precaution often cited as a means for assuring at least reasonably good temperature-humidity relationships, is to be sure not to oversize air-conditioning equipment. This because as cooling equipment gets bigger than actually necessary, it tends to operate only for short periods and to remain off for long periods in between. Dehumidification takes place only when the refrigeration machinery is running, and when it is not, moisture may leak out.

Schematic diagram of a typical window air-conditioner. The exterior is shown at top.

continued from page 9

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**ARCHITECTURAL RECORD HOUSES OF 1965** 11
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ack into the conditioned space more rapidly than it warms up, causing a "roller coaster" humidity effect not sensed by the thermostat but producing discomfort.

This kind of malfunction is most pronounced when the fan circulating the air in the conditioned space runs continuously and the refrigeration system does not. When the refrigeration system shuts down, the cooling coil quickly becomes warm and much of the moisture which has condensed on it during the boiling cycle may evaporate, sometimes causing an odor problem as well as excessive humidity. Where conditions are such that these things become objectionable, it may be the better part of valor to revert to on-off fan operation, despite the objections it carries with it.

Hydronic Air Conditioning

The problem is a large house, you may want to consider the type of system which is much less of an annoyance, for you may be willing to pay the extra cost if you insist strongly enough. This type of air conditioning, which does away with the need for ducts, is popular for apartment houses because it renders each apartment independent of the others while preserving the advantages of centralized refrigeration equipment. It has the further advantage that it not only makes room-by-room thermostatic control of both heating and cooling quite simple but also room by room use of air conditioning as well.

A house-wide hydronic air-conditioning system is much less of an "all or nothing," "all the time" proposition than a more familiar air distribution system. If this is what you have been looking for, you may be willing to pay the premium it entails, mostly because compact house-size water chillers—the mover for hydronic air conditioning—are not yet available.

With such a system, the sliding doors of the patio may remain open—with the room cooling unit shut off—while bedrooms or other parts of the house are being cooled. Individual members of the family can decide whether they want to sleep with their windows open or with their particular cooling unit functioning. Sounds and odors cannot be carried from room to room by ducts because there are none.

"Fan coil" units to heat or cool the air, according to the season, are concealed under window cabinets or, more rarely, placed above closets. Fans are operated at several speeds, and each unit has its own, built-in thermostat. Condensed moisture is caught in a drip pan and drained to the outside, and a small amount of outdoor air drawn in by each unit for ventilating purposes, as advocated earlier.

Hot water for heating is supplied by a central boiler, and cold water for cooling by the water chiller. Chillers may be of the regular, electrically-powered compression type, or may be actuated by a gas flame, according to the absorption principle. Absorption equipment costs more than compression equipment, but it lasts longer and is quieter in operation.

First class humidity control is harder to obtain with a hydronic system than conventional air conditioning because the water in the cooling coils cannot be made as cold as the refrigerant entering the coils of the conventional system. Moreover, its average temperature may be a good deal higher if, as is usual, temperature control is obtained by regulating the flow of water through the coil. With this arrangement, under light cooling loads the coil may not be cold enough to condense moisture. The latter effect can be avoided by using a fan coil unit where temperature control is achieved by regulating the amount of air allowed to pass through the coil ("damper control") rather than the amount of water passing through it ("valve control"). Such units are available, and you can have them (at extra cost) if you insist strongly enough. This feature is most important in humid climates.

Esoteric Systems

Individually-engineered hydronic systems may be designed for the custom-built house with the ultimate objective of achieving winter and summer temperature control which cannot be seen, heard, smelled or even noticed. A step in this direction is "valance" cooling—an upside-down version of baseboard heating where a finned heating-cooling pipe (very much like the one in a baseboard heater) is installed behind a valance near the ceiling of the room, along with a small gutter to intercept condensed moisture and lead it to a drain. The valance cools by "convection," i.e., no fans are needed to make it work because the cooled air, being heavy, falls to the floor and is constantly replaced by rising warm air.

In winter, the room may be heated by a blanket of warm air against the ceiling, or by separate baseboard units served by the same piping and controls.
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An Architect's Notes
On Kitchen and Bathroom Planning

Color and attractiveness are as important as convenience.

Preston M. Bolton, A.I.A.

It is regrettable that so few kitchens are designed for a "cook's view". The cook is in the kitchen far more than anyone and should have a pleasant view out of the kitchen, and effective traffic pattern inside. The kitchen should be active, not just a room with a sterile atmosphere for food preparation. Cooking in the kitchen should be as pleasant as dining in the library.

I think a lot of color in the kitchen is wonderful. To me, use of natural woods has been overrated and overdone, the end product is a dull kitchen. Color on plastic counters or fronts of doors creates a happy atmosphere. Naturally, one has to be careful to use colors that are complimentary to each other.

Good Lighting

Strong, generous light in the kitchen is of great importance. Most believe in commercial lighting—that is, lighting that would be acceptable in an office or drafting room. To me, there is nothing worse than trying to cook by the touch system. Refrigerators and ovens have lights inside, but we must have generous "daylight" by artificial light, as well. I find a complete luminous ceiling works well in a kitchen, and as a bright daylight atmosphere at all times.

For Change

I do not believe in a highly specialized kitchen with a specific elf, nook, or cranny, for each area. As an example of this, I have found that the client who wants a spice rack is thinking in ms. of a particular brand of spices, and after visiting the use I always see two or three different brands, that never fit the shelf, among the neatly lined spices. If one specializes excessively, he limits the use of the kitchen and is buying entirely for today's gadgets. This is not practical, as gadgets load the market each year.

Efficiency is still Important

The shape of the kitchen has a lot to do with whether the cook looks herself to death or usually has everything close at hand. Generally, I think, the doughnut shape is the best, because the cook is in the food preparation area and has the reach of the counter and appliances on all sides. There is an inconvenience in a too-large kitchen where you are constantly bumping into children as you walk from one side to the other.

The counter heights in a kitchen are of prime importance, and I see no reason for their being standardized to three feet. If a woman is five feet tall, a three foot counter is most inconvenient. Let's design the counter height for the cook. In order to do this, certain items such as a dishwasher would have to be redesigned.

Counter tops should be of the easiest material to clean with a sponge, as it seems everything in the kitchen today revolves around cleaning with a sponge. If the counter top is one of the plastic products, a space should be allotted near the range end covered with some material such as stainless steel, where hot foods from the oven can be placed.

Cabinets should have the same attention that the architect might give to cabinetwork in a library or elsewhere. I certainly believe in putting hardware on all of the cabinet doors and drawers. There is nothing messier than trying to open a concealed door with a hand that has just been in the biscuit dough. Hardware is a very decorative feature of the kitchen, and should be given as much attention as the design of the cabinets.

Very few women can reach above the bottom shelf of an

Continued on page 16

Drawn for the Record by Alan Dunn

"Now! Be prepared for the worst—Op Architecture!"

ARCHITECTURAL RECORD HOUSES OF 1965
Custom Designed

**NATURAL LIGHT**

**HUNTER “Sun Lenses”**
engineered to meet the challenge of an architect's imagination!

Properly controlled daylight offers unlimited opportunity for dramatic elegance and practicality — in homes, offices, churches, hospitals. The very nature of trend-setting design demands product flexibility — styles often cannot be limited by the bounds of conventional “standard” models. That is why Hunter’s manufacturing facilities are geared to “custom” Sun Lens production — where your request for the unusual is welcomed.

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For more data, circle 11 on Inquiry Card

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Kitchens and Baths
continued from page 15

Trim and colorful cabinets complement “doughnut”-shaped kitchen in the R. E. Rolle house, Houston, Texas. P. M. Bolton, Architect

upper cabinet, and there is never a storage place for that necessary kitchen ladder. Why not bring all of the upper cabinets down to the work level, and use the upper areas for wedding presents and the ice cream freezer?

While we are on the subject of space and planning, I believe that the lower cabinets should have very few fixed shelves. Let these shelves become trays that pull out into the room in order that you can see what is on the shelf and select the item you are looking for. For ease in cleaning, line the trays with a plastic product.

The small architectural details of a kitchen are also important. The insides of cabinets should be well painted to eliminate the use of bug-catching paper liners, and the outsides should be free of dust-catching crevices.

The floor of the kitchen should be of some material that

continued on page

For more data, circle 12 on Inquiry Card

ARCHITECTURAL RECORD HOUSES OF 1965

16
Naturally beautiful hardwoods... with TUF-LUSTRE prefinish

Now from Bruce, world's largest in hardwood floors, you can secure superbly pre-finished flooring and wall paneling. The remarkable Tuf-Lustre prefinish penetrates into the wood to protect its beauty year after year with minimum care. In Bruce Oak Floors you have a choice of Ranch Plank with pegs (pictured), modern laminated or solid Blocks, Fireside Plank in dramatic dark shade, and ever-popular Strip. BrucePly walls give you a wide selection of 41 paneling woods and finishes, color-styled by one of the nation's top designers. See our catalog in Sweets. For complete data, write E. L. Bruce Co., P. O. Box 397-C, Memphis 1, Tenn.
KEEP COOKED FOODS HOT, DELICIOUS AND READY TO SERVE FOR HOURS AS NO OVEN CAN

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This convenient, use-every-day appliance opens up a whole new world of kitchen freedom. Complete meals can be cooked in advance and kept hot and tempting for later serving. Children can now enjoy hot, tasty lunches even when you’re away. You'll put an end to last-minute scrambling . . . eliminate the problem of having all foods hot at one time! And, you'll enjoy your guests when your party meal is cooked in advance! Exact “Moist-Crisp” and temperature controls insure perfect food for hours after cooking. Select from a variety of decorator-styled exterior finishes or matching wood fronts to beautify and customize your kitchen.

Additional cooking facilities in the breakfast area supplement main kitchen in the John Winterbotham house, Houston, Tex. easy on the cook's feet, and easy to maintain. If we did have children in our house, I think a carpeted kitchen would be marvelous.

The pantry should be in the kitchen proper, and not in some other area. My preference is for a shallow pantry, perhaps two cans deep and with shelving of varying heights.

**Kitchen Dining Areas**

Eating in the kitchen is something that most of us like to do one time or another, and to me, there is nothing more comfortable than a chair and table on which to eat. However when this is not practical, there are a few comfortable type chairs, and the additional eating bar area in the kitchen does serve to good advantage as extra counter space.

I have never favored opening the kitchen completely to living space. The kitchen is always a noisy area, there is something about pots, pans, ice trays, etc., that seems to bring them together with a banging that resounds throughout the house. I feel that the grind of the disposal, the whirring of the dishwasher, the kitchen odors that go all through the house are not pleasant, and should be confined to the kitchen area.
ston Bolton's own house in Houston incorporates a compact version of the doughnut-shaped kitchen with a breakfast bar.

**Kitchen Appliances**

Good ventilation in the kitchen is a prime requirement, though sometimes think the elaborate vent hood over the kitchen is more of a cleaning problem than it is worth. The appliance manufacturers, in producing every conceivable type of built-in appliance, have done much to help the cook perform her duties with maximum efficiency. I do feel that the refrigerator manufacturers have gone overboard in specializing their interiors. I do feel that the refrigerator manufacturers have gone overboard in specializing their interiors. As an example, how many people take the eggs out of cartons and place them in each little stic cup? This space could be used to better advantage.

**Kitchen Examples**

R. E. Rolle kitchen is doughnut shaped with an adjacent kitchen area. This kitchen is done in bright blue and white to compliment the stainless steel appliances. The commercial crescent fixture gives a daylight appearance to the kitchen. My own house has a doughnut shaped kitchen with eating on the outside. This bar is used for the children's meals, as a place for the maid to eat. The kitchen is done in bright yellow and white, with stainless steel appliances. It has champagne-colored brick arches that interject a warm.

쳐 continued on page 22
Two homes

View through Starlux looks out on rolling hills and the distant Pacific. Dining is walled with \( \frac{3}{4} \)-inch Starlux plate. This photo was taken from the kitchen counter (see plan).

Warmly informal villa has wide arches cut out from wall of Starlux plate glass. Glass is used in lights eight feet square, much of it mounted in sliding aluminum doors. House is wood-framed with stucco cement finish outside.
The two houses shown here—one in Alabama, the other in California—have much in common. Both have rhythmically arched facades. Both center on protected inner courts. Both are set on secluded sites of striking beauty. And both are glazed extensively with ASG's clear Starlux plate glass to take maximum advantage of that beauty.

In each home, the visual fidelity of twin ground, polished Starlux has enabled the architect to achieve an intimate rapport between living space and building site. All the view comes through, clearly and accurately. And seen from outside, the reflective polished surface of Starlux makes a lustrous back-drop to the curve and thrust of arch and column.

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---

Kitchens and Baths continued from page 19

A back entrance hall has compartments to supplement kitchen a pantry in the Houston town house of Mrs. H. G. Safford note. From one side you look through a walnut-shutter opening to the street, and from the other through a full gl window to the children's play patio. This kitchen was design for the cook—she has everything at hand without a lot steps, and a delightful view wherever she looks.

In the large residence of John Winterbotham, the kitchen was designed with special areas for food preparation. The doughnut shape of the main kitchen with its commerce fluorescent fixture provides an efficient operation center for one or two maids. Outside of this space, in the breakfast area we have a second cooking unit and sink where the lady the house can prepare special sauces or a late breakfast. This keeps her out of the cook’s kitchen and allows her to prepare gourmet delight without interruption.

In Mrs. H. G. Safford's kitchen the colors are orange a white, with a black and white checkered floor. This kitchen has a butler's pantry between the kitchen and dining room prevent kitchen noises from traveling through the house, and to provide a flower arrangement center for the owner.

continued on page
There is no limit to St. Charles' ability to develop custom kitchen designs since every kitchen is made to order. Styles, convenience-features, finishes and textures, materials, colors...we have worked with all of them and can produce the kitchen as designed. We have had over thirty years' experience of close collaboration with architects. St. Charles representatives can relieve the architect of many time-consuming details from preliminary layouts through the completed job, including installation of appliances and services.

"St. Charles"

The quality name in custom kitchens for over thirty years

This lovely St. Charles Kitchen, although totally different from the one above, bears the unmistakable mark of St. Charles' craftsmanship and attention to detail that has made St. Charles the choice of countless architects for fine custom homes.

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Federal Pacific's Li-Trol® dimmer switch sets the stage for a story of leadership in products designed for modern electrical living. It all begins at the service entrance, with FPE's Stab-lok circuit breakers, load centers and service devices, or FPE Type SF fusible equipment with the Magic Main Breaker. There's more to the story than power distribution. There's power control, and FPE takes another bow with its residential safety switches, fuses, and motor controls. And there's power utilization. For example, FPE's residential electric heating equipment. Nothing is more beautiful, efficient, or easier to install than FPE's baseboard heating. Combined with the Li-Tronic thermostat, which reduces temperatures automatically as daylight or house lights dim, this is a system you can really sell. FPE makes the entire system (and guarantees the baseboard heating element for the life of the building). For special applications, FPE provides Curv-Air Classic convector heaters, radiant and forced air wall heaters and radiant heating cable. Even that's not the whole story, because FPE continues, as it has done for over 60 years, to provide new products to make electrical living a reality today. For the highest quality products, at competitive prices, from a single reliable source, you can't do better than Federal Pacific. For further information, and a free copy of FPE's Redi-Reference catalog, write Federal Pacific Electric Company, 50 Paris Street, Newark, New Jersey 07101.

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the connoisseur's choice

Connor Cabinets give you everything you have been looking for—beauty, utility, easy care. All wood (select northern birch), finished in a rich fruitwood tone which is stain and nick resistant. You have a choice of classic Contemporary with smooth flush doors, or elegant Continental styling, with Connor's exclusive picture-frame design. You'll find your Connor dealer listed in the phone book. Or write Connor for the dealer nearest you... don't forget to ask for a copy of the new Connor Cabinet brochure. It's the first step to a lastingly beautiful kitchen.

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Manufacturers of quality hardwood products since 1872
ELKAY
Once again specified more than all other sinks combined

Illustrated is the Consolette. Sculptured from nickel-bearing stainless steel (type 302). Write for our full line brochure. Elkay Manufacturing Company, 2700 South Seventeenth Avenue, Broadview, Illinois
minimum-sized bath is supplemented with relatively commodious dressing room facilities in the M. L. Cook house, Friendswood, Texas.

**bathrooms**

generally, I think, the bathroom should be the barest minimum size. The “Cleopatra” bath has now become such a luxury that few people can afford them. Plumbing manufacturers tell us that a standard bath tub is 5 ft long, therefore, we must plan bathrooms to fit this set dimension; the minimum dimension on the opposite way is seven feet. This will allow for a water closet, a lavatory with counter, and a tub, with enough room to move freely between each fixture.

The space above the toilet is always wasted in such a fixture set-up, unless you increase the amount of counter space by ejecting the lavatory counter across it. I believe that the lavatory should be built-in, in order that the wasted space below can be utilized. This space is always good for a small water receptacle, and there is always the toothpaste box that must be disposed of.

Such an arrangement in a bathroom dictates the placement of the medicine cabinet to the side of the lavatory rather than right in front. I firmly believe that each bathroom needs a

...continued on page 34
THE Cambridge Tile
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Spivak Ceratile Designs are for the architect, decorator or who wants something new... something really exciting in... and on a modest budget. The attractive designs, in recessed texture and soft muted colors of these new Spivak Designs combine to give an overall effect of elegance, please the most discriminating client. In creating each six new designs, Max Spivak designed them primarily for 'masse' effect in a wall. By using them in a random patter
MAX SPIVAK, ONE OF AMERICA'S OUTSTANDING CERAMIC MURALISTS, CREATES NEW DESIGN CONCEPTS IN WALL TILE FOR CAMBRIDGE...AND FOR YOU.

led by Mr. Spivak, repetitive monotony is avoided and the wall becomes even more exciting as its size increases. I'll find Spivak Ceratile Designs particularly suited for use in apartment and commercial lobbies as well as in bathrooms, rooms and kitchens. They can be used with equal effect for an entire room or for a single wall area. Spivak Designs are produced in 4¼" x 4¼" flat units in colors that coordinate perfectly with solid colors of SunTile and the colored bathroom fixtures of most manufacturers. And most important to you and your clients—Spivak Ceratile Designs are inexpensive, costing only a few cents more per sq. ft. than standard solid color wall tiles. Investigate Spivak Ceratile Designs today. We will send free sample tiles to architects, builders or decorators who write us on their official business letterhead.

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(A suburb of Chicago)

Compartmented bath and dressing facilities give air of luxury relatively small space in the P. M. Bolton house, Houston, Tex medicine cabinet for the many items that one collects.

In order to increase the visual size of the room, I like mirror one entire wall.

With the advent of the electric razor and toothbrush you must use recessed receptacles to get them off the counter and into a cabinet.

Lighting for the bath should be sufficient for close make-up for the lady of the house, and the man of the house should have the same amount of light for his shaving ritual.

Bathroom fixtures are limited as to what can be purchased. Certainly, the wall-hung toilet is a great innovation as far cleaning the floor is concerned.

I think a towel rack 18 inches off the floor for the bath is a must. The bath mat is a forgotten item and usually left hanging half in the tub.

There never seems to be a place for the bathroom scale. Scales are not easy items to clean, and we have found that they can be recessed in the wall and pulled out when needed.

A skylight inside the shower makes showering a glorious adventure, as well as preventing the tile from molding.

I propose the bathroom be located adjacent to a dressing area so that one is able to bathe and dress without several trips to various pieces of furniture in the bedroom. There should be a place to sit down in performing this task in small dressing room.
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"The only cost that matters is cost installed"

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SUNNY YELLOW
TURQUOISE
AZTEC COPPER
plus
SNOWCREST WHITE
and
BRUSHED CHROME

MORE FOLLOWS
DROP-LEAF DOOR WALL OVENS

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COOKING TOPS. Ideal surface cooking companions are these "built into counter" models. Match Frigidaire Wall Ovens in color and cooking convenience features. Some with recessed fronts, special cooking units, and remote control.

<table>
<thead>
<tr>
<th>Wall Ovens—7 models</th>
<th>Width</th>
<th>Depth</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall—5 single-ovens</td>
<td>23½&quot;</td>
<td>23½&quot;</td>
<td>29½&quot;</td>
</tr>
<tr>
<td>Overall—2 double-ovens</td>
<td>23½&quot;</td>
<td>23½&quot;</td>
<td>44½&quot;</td>
</tr>
<tr>
<td>Opening—single-ovens</td>
<td>21½&quot;</td>
<td>23½&quot;</td>
<td>28½&quot;</td>
</tr>
<tr>
<td>Opening—double-ovens</td>
<td>21½&quot;</td>
<td>23½&quot;</td>
<td>44&quot;</td>
</tr>
</tbody>
</table>

*Distance below top of counter.

Flair RANGES


<table>
<thead>
<tr>
<th>Flairs—3 models</th>
<th>Width</th>
<th>Depth*</th>
<th>Height† (Including 2½&quot; high base cabinet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall—2 single-oven models</td>
<td>30&quot;</td>
<td>25&quot;</td>
<td>62½&quot;</td>
</tr>
<tr>
<td>Overall—1 double-oven model</td>
<td>40&quot;</td>
<td>25&quot;</td>
<td>62½&quot;</td>
</tr>
</tbody>
</table>

*Depth with surface cooking section extended: 38½".
†Height with door(s) up: 49½".
‡Total height with optional exhaust hood: 70". With ductless hood: 72".

Compact 30 RANGES

Fast, simple installation in or between cabinets. Complete oven and surface cooking facilities. Large "6-pie" oven (23" inside width), 2 models with glass doors. Recessed control panels for easy cleaning. Raised edges on cooking top to catch spill-overs. Frigidaire Colors, White, Brushed Chrome. Just announced: glass door model with Pull 'N Clean Oven.

<table>
<thead>
<tr>
<th>Compact 30's—4 models</th>
<th>Width</th>
<th>Depth</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>30½&quot;</td>
<td>22½&quot;</td>
<td>25¾&quot;</td>
</tr>
<tr>
<td>Opening</td>
<td>29½&quot;</td>
<td>20½&quot;</td>
<td>24½&quot;</td>
</tr>
</tbody>
</table>

Frigidaire also offers a complete lin
**TWIN "30" RANGES**

Slide them in or between counters, and have the custom built-in look in short order! Double-oven convenience, "under and over" the surface cooking section. Bottom oven has spacious 23" inside width—handy glass "window" door on 2 Imperial models. Top oven is at eye-level height, with choice of Swing-Out or Glide-Up Glass Doors. Controls for entire range conveniently clustered at right of upper oven. Wide feature selection; choice of Frigidaire Colors and White.

<table>
<thead>
<tr>
<th>Twin-30's—4 models</th>
<th>Width</th>
<th>Depth</th>
<th>Height*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall—2 Glide-Up Door models</td>
<td>30&quot;</td>
<td>27(\frac{\frac{1}{2}}{\text{&quot;}})</td>
<td>66&quot;</td>
</tr>
<tr>
<td>Overall—2 Swing-Out Door models</td>
<td>30&quot;</td>
<td>27(\frac{\frac{1}{2}}{\text{&quot;}})</td>
<td>66&quot;</td>
</tr>
</tbody>
</table>

*Height with hood: 71\(\frac{1}{4}\)".

---

**Flair WALL OVENS**

For stunning slide-into-the-wall installation. Choice of double or single ovens, all with Glide-Up Glass Doors for easier cooking, easier cleaning. Two models with illuminated, eye-level control panels, all with pull-off knobs. Incomparable cooking features, such as Automatic Cook-Master, Roast Thermometer, and Broiler Grill available. Optional Rotisserie for Imperial models. Bright metal trim.

<table>
<thead>
<tr>
<th>Flair Wall Ovens—3 models</th>
<th>Width</th>
<th>Depth</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall—2 single-ovens</td>
<td>30(\frac{\frac{1}{2}}{\text{&quot;}})</td>
<td>17(\frac{\frac{1}{2}}{\text{&quot;}})</td>
<td>27(\frac{\frac{3}{4}}{\text{&quot;}})</td>
</tr>
<tr>
<td>Overall—1 double-oven</td>
<td>40(\frac{1}{4})&quot;</td>
<td>17(\frac{1}{2})&quot;</td>
<td>27(\frac{3}{4})&quot;</td>
</tr>
<tr>
<td>Opening—single-ovens</td>
<td>30(\frac{1}{4})&quot;</td>
<td>18(\frac{1}{2})&quot;</td>
<td>25&quot;</td>
</tr>
<tr>
<td>Opening—double-oven</td>
<td>40(\frac{1}{2})&quot;</td>
<td>18(\frac{1}{4})&quot;</td>
<td>25&quot;</td>
</tr>
</tbody>
</table>

*Height with door(s) up: 34" approx.

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**DISHWASHERS**


<table>
<thead>
<tr>
<th>Dishwashers—2 Under-counter models</th>
<th>Width</th>
<th>Depth*</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>23(\frac{\frac{3}{4}}{\text{&quot;}})</td>
<td>DW-IUJ: 26(\frac{1}{4})&quot;</td>
<td>34(\frac{3}{4})&quot;</td>
</tr>
<tr>
<td>Opening</td>
<td>24&quot;</td>
<td>24&quot;</td>
<td>34(\frac{3}{4})&quot;</td>
</tr>
</tbody>
</table>

*Depth with door down: 48\(\frac{1}{2}\)".

---

**FOOD WASTE DISPOSERS**

Ideal "after-meal" clean-up companions for Frigidaire Under-counter Dishwashers! (Or install alone.) Three models featuring easy, compact installation. Powerful, quiet operation. Food waste is liquefied, automatically flushed down the drain to eliminate worrisome, messy hand disposal.

---

**standing Ranges in 30" and 40" widths**
WASHERS AND DRYERS

Twelve free-standing electric washers and matching electric and gas dryers for work-free, automatic wash days. Washers feature powerful new Jet Action washing system, Jet-Away Rinse, Jet Spin, and giant tub. Also special feature selection. Dryers in 8 electric and 6 gas models offer wide feature choice, including two with Filtrator which eliminates venting and draining. Washers and dryers all available in Frigidaire Colors and Snowcrest White.

<table>
<thead>
<tr>
<th>Washers—Dryers—26 models Width</th>
<th>Depth</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall—12 Washers 27&quot;</td>
<td>26¼&quot;</td>
<td>44&quot; and 44½&quot;</td>
</tr>
<tr>
<td>Overall—14 Dryers 27&quot;</td>
<td>26¼&quot;</td>
<td>42½&quot;, 44&quot;, and 44½&quot;</td>
</tr>
</tbody>
</table>

*When Washer lid is in horizontal position (fully opened), total width is 39½". ¶When Washer lid is in max. vertical position, total height is 53½". §When Dryer door is in max. open position, total depth is 44½".

REFRIGERATORS AND FOOD FREEZERS

Beautiful free-standing refrigerators which range from 10 to 18.9 cu. ft. of refrigerated space—food freezers from 9.6 to 22.8 cu. ft. Defrosting is never required in Frost-Proof models. Exceptionally wide selection of capacities, sizes, and features. All refrigerators and food freezers powered by Frigidaire Meter-Miser Compressors. Wide offering of finishes and colors. Low-cost kits available to give many models built-in appearance. Food freezers may be selected from 8 upright and 4 chest-type designs, with color selection to match refrigerators.

<table>
<thead>
<tr>
<th>Refrigerators-Freezers 39 models: 27 Refrigerators, 12 Freezers Width</th>
<th>Depth</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall—17 Frost-Proof Refrigerators 30&quot; to 33¾&quot;</td>
<td>26½&quot; to 30&quot;</td>
<td>59½&quot; to 67&quot;</td>
</tr>
<tr>
<td>Overall—10 Non-Frost-Proof Refrigerators 24&quot; to 32&quot;</td>
<td>28½&quot; to 30&quot;</td>
<td>57½&quot; to 64&quot;</td>
</tr>
<tr>
<td>Overall—3 Frost-Proof Freezers (upright) 32&quot;</td>
<td>29½&quot; to 30½&quot;</td>
<td>64&quot;, 69½&quot;</td>
</tr>
<tr>
<td>Overall—5 Non-Frost-Proof Freezers (upright) 24&quot; to 32&quot;</td>
<td>29½&quot; to 30½&quot;</td>
<td>57½&quot; to 70&quot;</td>
</tr>
<tr>
<td>Overall—4 Non-Frost-Proof Freezers (chest) 53½&quot;, 70½&quot;</td>
<td>31½&quot;</td>
<td>35½&quot;</td>
</tr>
</tbody>
</table>

For more data, circle 31 on Inquiry Card

ROOM AIR CONDITIONERS

Twenty nine models. Thirteen for thru-the-wall application, including three for "delayed" addition of air conditioner mechanism, using separate sleeve that permits virtually flush line-up with outside wall. Ten models may be quickly installed thru-wall with three adjustable brackets. Cooling only or cooling and heating. In addition, Frigidaire offers 16 window models, including one for case-ments. Cooling range from 5,000 to 19,000 BTU/HR (NEMA). Choice of 115, 230, or 208 v.

<table>
<thead>
<tr>
<th>Room Air Conditioners 29 models Width</th>
<th>Depth</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall—3 for &quot;delayed&quot; thru-wall installation with separate sleeve (sleeve dimensions shown) 26&quot;</td>
<td>19½&quot;</td>
<td>16½&quot;</td>
</tr>
<tr>
<td>Overall—10 for thru-wall installation using cabinet for sleeve 26&quot; (6) 19½&quot; (4) 27&quot; (4) 16&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall—11 Standard window models 26&quot; (5) 19½&quot; (6) 27&quot; (5) 16&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall—4 &quot;Install Yourself&quot; window models (2) 25&quot; (2) 15½&quot; (2) 20½&quot; (2) 16&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall—1 casement 14½&quot;</td>
<td>26¼&quot;</td>
<td>10½&quot;</td>
</tr>
</tbody>
</table>

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

For detailed information about Frigidaire Appliances, contact your Frigidaire dealer, or your architect, builder, or kitchen remodeler. Or write Frigidaire Division, G.M.C., Dayton, Ohio 45401.
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I enclose 25¢.

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However rhetorical the question, it at least reflects our personal gratification that the work of so many outstanding residential architects is increasingly oriented toward elegance, imagination and environmental harmony. And we are even more gratified—albeit not unselfishly—by the high percentage of these architects who have recently specified Follansbee Terne on major projects. For Terne, its functional integrity validated by two centuries of use, is unique among roofing materials in that it provides both form and color at relatively modest cost.

"STORNOWAY", Ligonier, Penna.—featured in 1965 RECORD HOUSES.
Architect: Winston Elting, AIA, Chicago, Illinois

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Follansbee, West Virginia

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In Sweet's Architectural File

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(See the Alan Steinert home on page 110)

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1965 marks the tenth anniversary of Record Houses and its ARCHITECTURAL RECORD Awards of Excellence for House Design. It was launched in 1956 as an extension of ARCHITECTURAL RECORD's continuing purpose of recording and stimulating design progress. On the documentation side, the decade that has passed since the first issue reinforces, once more, the fundamental value and durability of good residential architecture: a review of the houses included in Record Houses of 1956 reveals an undiminished freshness and livability in each of them.

As for design progress, in the course of preparing this tenth edition we were extremely impressed by the present general high level in house planning and design, and by architects' creative ingenuity in providing for more privacy, quiet, living space and convenience. The search for the 20 houses for this year's awards proved to be more a close evaluation of many, many good designs than a "search." But of them all, we believe the 20 houses selected represent the best in a cross-section of design and plan types, cost range from modest on up, geography across the nation, and of the work of new and established architects. We are proud to present our award to the owners and architects of each of the houses shown here.

As before, Record Houses will be available to the public in a bookstore edition, and will be distributed to the nation's 20,000 foremost builders to accelerate the healthy trend toward greater architect-builder collaboration.

Five of this year's awards again go to well-designed development houses, and it is rewarding to note the many "custom design" planning and design ideas that are being incorporated to make them more comfortable, economical and attractive.

As George Bain Cummings, then President of the American Institute of Architects, wrote in Record Houses of 1956, "here (one) may observe real evidence of easier, healthier, safer and more enjoyable living through architecture."

Herbert L. Smith, Jr.
An extremely strong and individualistic handling of the roof-ceiling formation characterises Joseph Schiffer's design for his own house. Three wide, plywood box beams, supporting two bands of acrylic skylights, are the main elements in the roof structure. From the exterior, the two outer beams appear as wide roof 'channels' in which an unusual balance is established between the upward projections which support the skylight framing in the center of the roof, and the overhang along the sides of the house, which serves to shade the glass and give protection from excessive brightness and glare. The overhang is in turn balanced by an extension of the floor of the house to form an open porch going the whole way round the building.

The plywood roof beams are equally dominant inside the house, where they define each of the main living areas, and give an extraordinary sense of stability and permanence to the structure. Skylights running the full length of the house on either side of the center beam, throw light into the middle of all the living and family rooms and prevent the ceiling structure from appearing in any way heavy or oppressive.
Describing how the plan was evolved, Joseph Schiffer said: "the plan of the house is generated from the enclosure of all secondary functions, such as storage, closets, baths, and alcoves for the display or containment of works of art. The primary areas are the open living spaces created in between the closed walled forms of the secondary service areas." These U-shaped walls, which support the plywood box beams are built of stud framing with plastic-faced plywood exterior surfaces and with a similar gypsum-plaster panel surface on the interior. This wall arrangement has the advantage of leaving room spaces clear and uncluttered and also of providing attractive alcoves for plants, pictures and small pieces of furniture. From the outside, the wall alcoves give an impression of solidarity to balance the bold expression of the roof structure. Glass areas between the alcoves give glimpses of the outdoors. The cost of the house was approximately $35,000, excluding lot, landscaping and furnishings.
The architecture of the South, most vividly characterized by the neo-classical period, has been dramatically restated and revitalized by Paul Rudolph in this imposing southern villa. Despite the dominant use of classical form, the repetition of the curved shape in stairways and balconies evokes a certain romantic aura. The stairs seem made for the sweep of a ball gown, and the balconies for twilight serenades.

The house is set on a podium from which rise the 32 circular brick columns. A long, curving drive leads to the front of the house, which for the most part solid and quite private. Curved steps on the south side take one to the entrance. The almost startling whiteness of the house against the surrounding greenery is once again typical of neoclassical southern homes.
ARCHITECT: PAUL RUDOLPH

Residence for Mr. and Mrs. John Wallace
Athens, Alabama

Structural Engineer: John Altieri
Mechanical Engineer: Herman J. Spiegel

VIVID RESTATEMENT
OF SOUTHERN NEO-CLASSICISM
The central court, around which the whole of the Wallace house is planned, is perhaps the most imposing part of the design. Here all the different elements in the design are brought together; curved stairs, columns, the long porch can all be clearly seen from the court. As this area is open to the sky, variations of bright sunlight and deep shadow are seen here to full advantage.

Describing the structure of the house, the architects said "The materials are unified, cement-like; brick exterior and plaster interior, although marble from an old Alabama courthouse was installed where cost would allow. The columns are not made of special radial brick but standard brick laid on edge." The house has a wood stud frame and floor joists and a built up roof. Off-white plaster interior surfaces enhance some very nice period furniture. The cost was $90,000.
This festive, informal house seems to amply fill the owners' requirements: a home for present active family life, and one equally suitable for eventual retirement. Provision for low maintenance, servantless living and a restricted budget were also vital.

As built, the house is relatively small (1925 square feet of enclosed floor area), but works as well and appears as large as many quite sizeable ones. Part of this is due to the openness of the plan, and to the concentration of one really big room (shown here and on the cover). It was also constructed for reasonable cost, about $30,000.

The house incorporates a number of ‘resort’ facilities, including swimming, ping pong, pool table, outdoor dining and facilities for frequent small social gatherings. The kitchen was carefully located in a central position to serve dining room, living room, recreation room and poolside with equal ease at minimum distance. All major living areas look out to fine views.

ARCHITECTS: FREDERICK LIEBHARDT & EUGENE WESTON

Residence for Mr. and Mrs. Nevin W. Del Mar, Calif.

Structural Engineer: John Kariotis & Associates
Contractor: Syd Neuhau

DOUGLAS SIMMONDS PHOTOS

A HOUSE PLANNED FOR LEISURE, EASY CARE AND RETIREMENT
The site of the Wiley house is a deep, narrow one, falling abruptly to the East and South. The “T” shaped plan was oriented to provide both sun, and shelter from the prevailing wind, at the pool area, as well as relate to the views to the East and West. The architects describe the house as “a two-level, open plan with mezzanine bedroom and two-story living room. Forms and materials are kept simple, with aesthetic impact derived from interflowing volumes and spaces.” Thus, the master bedroom adds its space visually to that of the big living room, and shares in the views through the tall glass walls. If more privacy were desired in the bedroom, it would be a simple matter to install a short folding partition on top of the balcony counter-railing. A bedroom and bath for a teenage son adjoin the recreation room on the lower level. For retirement years, these three rooms will be used as guest bedrooms. Materials are: redwood, terrazzo, marble counters, and mahogany cabinets.
ARCHITECT: HOWARD BARNSTONE AND PARTNER, EUGENE AUB

Residence for Mr. and Mrs. John M.
Houston, TX

Structural Engineer: R. George Cunning
Contractor: Ivanhoe Construction Com
Landscape Architect: Thomas Ch
Interior Designer: Wells D
TREETOP" LIVING PAVILION OF STEEL AND GLASS

steel and glass living-dining room, which
seems almost to be suspended among the trees,
unquestionably the most dramatic feature of
that is in any case an unusually interesting
theme. The enormous living pavilion consists
of a 55 foot by 30 foot steel truss resting on
four 4 foot by 4 foot brick columns. The
architect said that the unusual shape of the
steel framing was governed by engineering con-
ceptions, but this has the effect of enhancing
appearance of the structure and preventing
looking like an oversized glass box. Detailing
execution have been meticulously handled,
demonstrating how effectively steel can be used in
domestic architecture.

Inside, the living room and dining room
together form one of the most impressive in-
terior spaces in this year's Record Houses. The
glass is tinted so that sunlight is never ac-
companied by glare. Shades are provided for
additional protection when required. The
Mahers' collection of antique furniture has been
used to great advantage in this eminently 20th
century setting. The furniture has been placed
in contemporary groupings, and great care has
been taken not to over-furnish so that the effect
of the space is in no way impaired.

The architect says that the house was con-
ceived of in two masses, the front mass con-
taining entry, bedrooms and all family spaces,
while the back mass consists of the huge living
room, with a parking space beneath.
AIR CONDITIONING IN FIVE ZONES FOR MAXIMUM CONTROL AND EFFICIENCY
hough the living pavilion is the highlight of the Maher residence, the rest of the house is also very well planned and provides a great variety of unusual living areas. The master bedroom suite is particularly luxurious, consisting of two large adjoining rooms, one with a spacious dressing room and the other with a private gymnasium. A library between the two bedrooms makes a convenient place for quiet study. Wherever possible balconies are provided overlooking the trees and a small pond or creek. The children’s entrance on the lower level gives convenient access to their bedrooms.

The mechanical system for a house of this size is important and presents certain problems. The architect describes how these are solved: “the mechanical system involves five separate cooling systems interconnected by hot water heating and a common return through the shallow ‘attic’ between floors. The purpose of the separate systems is that the house be not vulnerable to total breakdown in the event of failure of a single compressor. With the common return, one of the systems may be inoperative and the house would still be livable. Separated systems also provide a natural ‘zone’ control.”

Interior walls are gypsum board, plaster, and wood paneling. Ceilings for the lower floor are wood; for the rest of the house, plastic plaster is used.
One of five prototypes designed by Gene Leedy for Levitt and Sons (and the only one built and for sale so far), this house marks some first steps forward in planning for development houses. Simplicity, combined with the use of standard materials also make it the least expensive of this year's Record Houses. It is priced for sale at $20,990, which includes washer and kitchen appliances, lot, landscaping, architectural fees and all closing and settlement costs, and central air conditioning. It is reported that public interest in the house has been high, and the sales volume satisfyingly good.

The security and privacy provided by walls in courtyards in a development is one of the key factors in the success of the house. The basic idea is hardly new — there have been many variations on the use of courts in our past successes, and several in this one. But probably the most simple and effective of all is the use he straightforwardly flanking a glass-walled house with courts at front and back. The visual space of the house (and in good weather, the usable space) is trebled. The carport is set in front of the house compound, but connected to it by a covered walk. A simple, but dominant roof has been added to strengthen the architectural character, and to keep it from appearing awkward.
DOOR ROOMS TREBLE SPACE IN BUILDER HOUSE
The courts and room arrangement of this house for Levitt and Sons is expressly planned to provide outdoor space for play off the three children's bedrooms, and a separate terrace at front for adult entertaining. A fin wall screens the play area from the living room at back. Flowering vines are planned to cover compound walls to soften any present austerity.

The plan of the house is fairly straightforward and well zoned. The kitchen is centrally and conveniently placed, and flanks the two baths, plumbing economy. And for the number of rooms it serves (including a laundry "closet"), the plan hardly seems disproportionately long. A fairly impressive little entry has also been created, with an iron gate, flowers and a small foyer leading into the living area. The circulation path from the entry to the bedrooms unfortunately has to cross the living area—but, no doubt the "far entrance" to the house will be via the carport.

The structure is built with plywood girders on the concrete block bearing walls, and supporting wood trusses. Exterior surfacing includes block, brushed cedar siding and asphalt shingling. The interiors are drywall construction and the floors are terrazzo.
CAREFUL ZONING ADDS CONVENIENCE TO AREAS INDOORS AND OUT
MUSIC ROOM IS DOMINANT FEATURE OF HOUSE
hen planning a house around one important central require-
ment, it is sometimes a temptation for the designer to concentra-
tie efforts on fulfilling this central need, and to some-
tent to sacrifice the rest of the house to the perfecting of the
main theme. Most people are probably familiar with the "hi-fi"
house, in which one area is acoustically treated for the perfect
production of stereophonic sound, but the rest of the house
aves something to be desired. One may enjoy many hours
ening to concert music in such a house, but lack of detailed
anning of other areas may make ordinary living somewhat
amped or uncomfortable, or may result in certain aesthetically
pleasing features. Of course, budget limitations and particular
cumstances make some compromises inevitable, but unfortu-
tely planning deficiencies of this type cannot always be excused
these grounds.

Earl Flansburgh’s architectural solution for the Gatos family
ectively avoids these pitfalls. The scheme admirably fulfill-
central requirement—the provision of a large music room—a
house which is practical and pleasant for family living, as
ill as being aesthetically satisfying. Professor Gatos is a keen
ateur musician and he needed a music room which would
ommodate fairly large groups for informal concert evenings.
room also serves as the main living area in the house, and
ads itself readily to other forms of entertaining. The lower part
the ceiling above the piano and the harpsichord acts as an
oustical reflector and also, through contrast, enhances the
ight of the rest of the room. The glazed area connecting the
and high ceiling heights lightens the room and throws sun-
t up on to the unpainted, sand-finish plaster ceiling. Interior
ils of painted plaster form an effective background to a collec-
on of paintings by Jack Wolf and George Dergalis.
The zoning of the plan integrates the music room very well
th the rest of the house, but at the same time allows the
ily rooms and bedrooms to be completely closed off, every-
family routine can continue and the children can sleep
thout being in any way disturbed by the music.
The effect of dramatic space inside a house is too often marred by an unfortunate choice of furniture. In this case, however, the furniture is both comfortable and practical, but has been carefully chosen to emphasise the space rather than detract from it. The free standing closet in the dining area serves to shield the dining table from the entry hall. The room has a quiet, rather formal air, but can be quickly brought to life when the curtains are drawn back, or when an informal concert is in progress. Steps connecting the dining platform with the lower level can be used as an informal seating area. A sheltered deck outside the family room makes a pleasant spot for having meals out of doors. Attic space above the bedroom wing can be converted into an additional bedroom.
The architect had the advantage of planning the Gatos house on a well-wooded site beside a pond, but the house actually seems to enhance the natural scene. The gabled roofs, which express the high ceilings in the music room and attic space above the bedroom area, give form and substance to the structure. Shadows from the surrounding trees are strikingly reflected on the white-painted pine exterior walls. Large sculpted mounds serve to shield the house on the street side, so that considerably privacy is afforded. A detached garage is situated near the entrance drive. Construction is wood frame with stud bearing walls and joists, on a poured concrete foundation. Exterior walls are unplaned siding in ship lap pattern. The cost is approximately $75,000.
ARCHITECT: ALFRED N. BEADLE, DAILEY ASSOCIATES

Residence for Mr. and Mrs. Alfred N. Beadle
Phoenix, Arizona
Contractor: Len Pritchard
A MODULAR STEEL FRAME RAISES HOUSE ABOVE SEASONAL FLOODS

An asset was made of a difficult site problem in this trim house. The lot was chosen because of its desirable location and its undulating grades. However, it was a natural “wash” which carries off seasonal run-off water from the neighboring hills. To cope with it, the architect simply left the site undisturbed as a natural, pristine rock garden, raised the house on steel stilts, and enjoys the periodic streams running through. The entrance drive and pool terraces were built up a bit, with block retaining walls, so they would not flood during run-off times. Raising the house itself gave an added bonus in gaining elevation to take advantage of a nice view to the south.

The design of the house contrasts a rather sophisticated, hard-edged structure with the natural rocky environment. It is totally contained in an exposed, modular steel frame with bays measuring 12 feet 4 inches by 14 feet 4 inches. The bays are used open or closed as the plan warranted, for rooms, terraces and planting areas. Enclosing walls are sliding glass doors or panels surfaced with cement plaster. Rooms or terraces were planned to exactly fit a one or two bay space. The extensive use of glass walls and integrated outdoor spaces visually enlarges all the living areas in the house. Two combination heating and air conditioning systems (one three-ton, one five-ton) join with sensible zoning in the plan to provide a very liveable house for Mr. and Mrs. Beadle and their five children.
In his own house, Alfred Beadle used the regular, disciplined bay spacing as a "design motif" throughout the raised or built-up areas of house and grounds: the same module is used for dimensions of planting beds, drive and the like. In these areas, planting is carefully controlled to contrast with the natural site—a device which considerably reduces the maintenance required for the grounds. It would be possible, if desired at a later date to enclose some of the open deck areas in the house to enlarge some of the existing spaces, or to add new ones. As built, the house has 2400 square feet of interior space, and 4800 square feet of roofed space; quite a bit of luxury was included for a construction cost of approximately $37,000, excluding lot and landscaping.

The steel structure supports wood joists topped by plywood sheathing for floors and roof. The surfacing for the roof is a 4-ply built-up one; carpeting is used on the floors of most living areas. Four-inch batt insulation is installed in floors and ceilings as a thermal barrier.

All the interiors are finished with painted gypsum board, except the big family-room-kitchen, which is surfaced with walnut. All the baths are interior ones, daylighted by domed plastic skylights. All the utilities of the house are ranged along the central bays to form a sort of extended "service spine". In addition to the generous storage provided in each room (including a good-sized dressing room for the master bedroom), there is a commodious storage "house" flanking the garage.
DOOR AND OUTDOOR SPACES FORM A CLOSELY LINKED COMPLEX
Although "Stornoway" is a country house very much in the contemporary idiom, it nevertheless has strong roots in a tradition of country house design dating as far back as feudal times. The imagination of many of today's leading architects has been caught by village and farm house designs in Europe, and a number of them have translated these forms into modern techniques and materials and have used them as a basis for their personal architectural expression. Concern with shed roofs, concentration on light and shade, high sloping ceilings, often with skylights in the roof angles, are typical of this approach and can be seen in Winston Elting's strongly individualistic handling of an accepted theme.

Approaching the house through rolling farm country and entering the paved courtyard as the afternoon sun throws long shadows on the gravel paving and the stone walls are mellow in sunlight, one has the impression of coming to a house which has been an integral part of its surroundings for many years. It is almost the feeling that one might have on approaching a farm house in the Cotswolds. The unselfconscious regional quality of the house was quite deliberate and was in fact built into the program, who stated that the house, though very large, should appear to belong to the natural landscape and should at all costs avoid the overpowering impression of a large estate. The use of local stone for the walls, the quiet dark gray tile roof, the massing of the building around a central courtyard, are all factors in the architect's success in meeting his clients' requirements.
In order to accommodate second story windows without the need for dormers and to maintain the uniformity of the roof pitch, the stone walls have been recessed at these points. This has the effect of putting the exterior walls on two or more planes and creates an unusual play of light and shadow. Inside the house, the narrow windows with the stone detailing between them, rough stone walls and fireplaces, which contrast effectively with the light-colored sand-float plaster of the other interior wall surfaces, create an impression of warmth and intimacy without in any way detracting from the wonderful sense of space.

Although the house has a pleasant, informal, rambling quality, the plan is sufficiently compact to work very well as a complete unit. The variety of forms have a logic and cohesion which enable them to operate visually and functionally as an integrated whole.
UGE, RAMBLING INTERIOR SPACES FUNCTION AS COHERENT ENTITY
The distinctive serenity of this house, designed for a waterfront subdivision on Bird Key in Sarasota, is a generous cut above the somewhat chaotic architecture of many houses built for sale. Instead of the usual tendency to gain effect by using too many contrasting materials and colors in the structure, the architect has emphasized his design by limiting the choice of materials to only two: the concrete brick of the walls, and the shingles of the roof. The "effect" is achieved by the quiet relationships of the forms of the house itself. Curved, hipped roofs add a touch a little out of the ordinary, with one sheltering a carport that is unusually well integrated with the overall design of the house.

The air of serenity and privacy continues within the house as well. Walled and screen-topped patios, or "Florida rooms", surround the house on most of three sides and shield the interiors and terraces from neighboring houses and the street. The fourth side opens onto the water at the back. Thus the glass walls of the house open only on the private patios and the view; one hall window looks onto the drive.
ATIOS AROUND DEVELOPMENT HOUSE ADD PRIVACY

LIONEL MURPHY PHOTOS
In the handling of the interior spaces of the house, Jack West has used a number of interesting devices to make the rooms seem larger than they are. The laminated wood beams and decking of the roof are left exposed to carry the eye up with the sweep of the curve; the screened roof of the patios similarly carry the view upward.

At least one wall in each room is of sliding glass, open the area outward both visually and physically, and in the opposite direction each room leads to a more constricted passage giving hints of space beyond. A folding partition separates the living and service areas, permitting their use together or apart. A brick floor carries through from the porch into the living room, foyer, hall and kitchen, giving unity to all these spaces when used together.

The house is well zoned for convenience and privacy. Each bedroom is planned "hotel fashion" with dressing area and bath near the entrance, giving the room itself double use as a sitting and sleeping room. Banks of closets and baths help reduce noise transmission from the living and service areas.

"Asking" price of the house is $60,000 with landscaping and air conditioning.
PEN PLANNING AND CURVED CEILINGS ADD TO SENSE OF SPACE
The regular spacing of a 15-foot column module has been used in this handsome house to create a big variety of related spaces: different areas are made up of either one, two or three modules and some have snug, low ceilings while others rise to the roof some 18 feet above. The basic discipline of the module is always apparent and emphasized by the concrete columns.

The exterior is enclosed by panels of aluminum-framed glass, or of cypress with a natural finish. Two of the modular bays at the back of the house are not enclosed, to form porches and balconies sheltered by the wide overhang of the roof. To take advantage of the view of Lake St. Clair, the rear facade is entirely glass; the other three sides are more enclosed for privacy from street and neighbors. The fenestration on these three sides makes use of an arched form for added interest—and they are invented in a somewhat whimsical manner on the second level. In addition, a band of glass is placed around the house, between the exterior wall panels and the roof, to accent the light steel pin supports. The well studied relationships of all these elements, and neat detailing, combine into a pleasantly unorthodox design.
MODULE SCHEME PROVIDES DISCIPLINED VARIETY

ARCHITECTS:
MEATHE, KESSLER AND ASSOCIATES
Residence for Mr. W. Hawkins Ferry
Gross Pointe, Michigan
Landscape Architect: Johnson, Johnson & Roy
Contractor: George Crane, Inc.
NEAT DETAILING HIGHLIGHTS LIVING AND SERVICE AREA
Ferry house had two major program requirements in addition to the usual living facilities: to provide means to exhibit an impressive collection; and, sufficient air conditioned space and facilities to accommodate large numbers of people at parties. Both seem to have been achieved without any sacrifice of everyday livability.

To give maximum play to the colors of the paintings, neutral colors are used throughout the house, with all materials simple, textured ones. And, with the exception of some antiques in the owner's collection, the architects selected trim, temporary furnishings. Walls are sand plastered painted beige; ceilings are white acoustical plaster, except for parquet walnut flooring used for a ceiling over the living room "conversation". Undyed wool carpets are used throughout principal areas of the house, except for gold set in the dining room, terrazzo in the entrance, and vinyl in the kitchen, tile in the baths. Immediately in front of the living room windows which face the lake, there is a terrace constructed a "mural" of hand glazed bricks in shades of red, black and white, and designed by Glen Michaels.
A "provocative house" for an average family of four, "who want a house above the caliber of the tract home but can not afford a truly custom house with all the rooms and space they desire," was asked for by the Los Angeles Times and the Southern California and Southern Counties Gas Companies, who together sponsored this scheme.

The architects fulfilled these requirements within the limits of quite a strict budget by intelligent split level planning, which took full advantage of a sharply sloping site "to achieve a flow of space between rooms," making the house appear larger than its 2350 square feet. The living-dining area was conceived as "universal pavilion" connecting and unifying other elements of the house. "Every effort was made" said the architects "to have this space appear very large and free. Towards this end a formal entry was sacrificed in the interest of achieving a larger living space." The master bedroom leads off the living room, a half-level above it, so that the two areas "contribute a common volume," but the bedroom has visible privacy. Decks outside the living room and master bedroom further extend the living area.
ARCHITECTS: TERNSTROM & SKINNER

Development house
for Louis M. Hickey and John Barr

South Pasadena, California

Partner in Charge: Robert H. Skinner

Structural Engineer: Joseph Kinoshita

Mechanical Engineer: Paul Bennett

Contractors: Louis M. Hickey and John Barr

Landscape Architect: Henry Soto

Interior Designer: Roger Pendleton Wood

IMAGINATIVE SPLIT-LEVEL PLANNING
SYMPATHETIC HANDLING OF DETAILS GIVES HOUSE WIDE APPEAL
Robert Skinner's care and imagination in detailing raises this house above the level of the majority of development houses, and makes it adaptable to the needs and tastes of different families. Such touches as the clever concealment of the laundry facilities in the family room on the lower level, and the two-way alcove connecting the children's bedrooms so that they can be one large, or two smaller rooms as desired, are evidence of this attention to detail.

Structure of the house is Douglas fir framing with structural steel columns and fascia in the living room. Rough-sawn redwood and plaster are used for exterior walls. Central gas air-conditioning provides both heating and cooling. Cost was $36,000.
Variety and change form a neat synthesis with restraint and dignity in the design of this lake-front house in New Orleans. As the architect has commented, "it's as near 'monumental' as a house ought to get." But the strength of its forms has been achieved with great spiritedness and is never heavy handed.

As a center for the family of five (there are three teen-age sons), the plan focuses on an extremely effective living area. It is, as the architect says, "one really nice, big, expansive, variable, flexible space." At the back of the house, toward the lake view, the room is walled with glass and set in a sunken area to be developed as a "water garden". Tall ceilings are expanded further upward by roof "pyramids" topped with skylights. Two revolving partitions in the center of the space can be closed to create separate sitting and play rooms — one for the adults, one for the children. The play room thus created is overlooked by a balcony leading to the children's bedrooms on upper level. In the sitting area, the fireplace handled in a rather unusual way, with a standing chimney (which also supports the roof set outside the glass wall, and the fireplace is cantilevered through the glass into the room.

To effectively contrast with the big living room, and to create a better sense of zoning, the other spaces in the house are at a higher level, smaller, lower ceilinged, and more closed. Even the dining room and study, which have one wall of glass, focus onto the corner of the water garden, rather than out to the view of the lake. The kitchen and other service areas are grouped in a wing by the dining room and the master bedroom suite flanks the slant at the other side of the house.
ARCHITECT: CHARLES COLBERT

of COLBERT, LOWREY, HESS, BOUDREAUX, FARNET

Residence for Mr. & Mrs. Victor Kirschman

New Orleans, Louisiana

Associate on Job: William J. Hess Jr.

Contractor: Richard F. Goodyear Inc.
Foundations for the Kirschman house are supported by creosote piling—as can be noted in the section below—due to the marshy soil conditions of the area. The foundations are minimized by cantilevering out the floors of the two wings. The floating quality achieved by this, together with light wood framing, stained plywood siding, wall projections and slit windows at the wall intersections, all combine to give a feeling of lightness in spite of the minimum number of windows on the more public sides of the house.

Most partitions in the house are surfaced with painted gypsum board, as are all ceilings except in the big room, which is finished with acoustical plaster. Floors are brick in living areas, tile in the service rooms. The house has year-round air conditioning, and a swimming pool off the play room. The cost was about $110,000, excluding lot, landscaping and furnishings.
Perched on a wooded hillside, 40 feet above Beard's Creek, Maryland, this little house was designed by Hugh Jacobsen for the owners' weekend and summer use, but many people would be happy to regard it as a permanent home. Indeed the house, which is fully heated and air-conditioned, has been planned for the possible addition of two bedrooms and a bath in another building of similar design, should the owners decide to live there all the year round.

Although the house is really quite small—32 foot square—it achieves a remarkable sense of height and spaciousness. A cypress deck on three sides of the house extends the living areas right into the trees and over the water, so that sitting there one has the impression of being in a tree house. High white ceilings, clean cut lines, simple well-designed furniture, the vertical ribbed effect of the cypress strips on the walls of the entrance hall, which take the eye right up to the plastic skylight in the roof, all combine to give this spacious feeling. The roof is framed by a 3/8 by 1-1/2 inch steel tension ring going around the entire perimeter of the house behind the cypress facia. The 1/2-inch exterior plywood roof sheathing acts as a skin tying the entire roof into one unit.
CARE IN DETAILING GIVES CRISP, UNCLUTTERED INTERIORS
The compact plan works very well for Mr. and Mrs. Naftalin and their two small sons. The boys’ bedroom which is only 6 feet 8 inches long by 6 feet wide, has two built in bunk beds at the level of each of the cast-bronze porthole windows. The door to this room is concealed in the cypress paneling in the hall. Leather thongs serve as pulls for this door and the doors to the powder room, clothes closets and laundry. The master bedroom and kitchen at opposite ends of the house, can be shut off from the living-dining room by plastic-faced sliding doors. The shower serving the master bedroom has a concealed door opening onto the deck to allow swimmers to use it without going through the house. The raised entry hall is connected with the living room by a small spiral stair of 4-inch-thick laminated oak, stained walnut to match the walnut-stained oak flooring. The structure of the house is wood frame with walls of unfinished, tidewater red cypress, and a roof of ceramic tile.

A partial lower level is used for utilities and storage. The underside of the deck is fitted with a bank of fixtures to light the trees and erase interior reflections at night. These lights are controlled from the living room. The cost of the house, excluding lot, landscaping and furnishings was approximately $32,000.
ARCHITECT: WILLIAM MORGAN

Residence for Mr. and Mrs. David G. Rawls
Jacksonville, Florida

Structural Engineer: James N. Hutchinson
Mechanical Engineer: James N. Sampson
Contractor: Vernon Prevatt
In addition to their spectacular effects, cantilevers can help cut costs and add space in a house. This trim, well planned structure is supported by two stone “service towers”, which contain baths and utilities. Steel-frame roof members cantilever twelve feet out from the towers at either end, supporting the second floors below by hanger rods, and sheltering the two carports beneath. Within, space is added for two bedrooms, while limiting the foundations to a relatively small area.

The house is arranged in three zones, each with its own airconditioning and heating system: living areas on the first level; and bedrooms for parents and children at opposite ends of the second floor, separated by the two story living room. Banks of closets and baths, vertical blinds, and acoustical ceilings help insure privacy. A four-foot-wide deck shades the glass walls of the east elevation, and gives exterior access from pool to bedrooms by way of circular steel stairs at either end. Windows are minimized on the front of the house.

The living areas are planned to open for use together, but can be closed by sliding doors into separate rooms.

Interior finishes include walnut paneling, stone and wallboard partitions, and terrazzo floors.
RESTRAINT AND VARIETY ADD TO GOOD VALUE

The Rawls house is an extremely comfortable, easy-to-keep one, and well suited to its waterfront Florida site. Variety in spaces and materials, but handled with a deft restraint, provide an element of change that is, all too often, either missing or overdone. As noted previously, sliding doors open all the lower floor into connecting areas; the living room and two flanking bedrooms are similarly connected. The house is adaptable to the constantly changing requirements of family living. A summary of the costs of construction are given below.

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Labor and Contractor</td>
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<tr>
<td>Material</td>
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<td>Drywall</td>
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<td>Pump</td>
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<tr>
<td>Roofing, Air Conditioning, Heating</td>
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TOTAL .................. $37,165.76
VARIETY IN LEVELS CREATES INTERESTING SPACES
one-story house with ample entertaining space, as well as more intimate areas for quiet and study, was asked for by Mr. and Mrs. inert, who both lead active social and community lives and also enjoy frequent visits from their children and grandchildren. As the slopes quite steeply, it was necessary to make use of several levels in order to meet the one-story requirement. The formal entry on one level, with the master bedroom and study-sitting room, living room and kitchen all on one level two feet below. The living room and library are four feet below this and are approached from the main entry down a series of broad, carpeted steps. A circular light in the middle, and floor-to-ceiling glass at the end of this passage serve to soften and lighten this rather long approach to the living area. A partial second story was in fact included to accommodate guests rooms and a maid’s bedroom. Ceiling heights vary from 7 feet 6 inches in the entrance, to 9 feet 4 inches in the master bedroom and dining room, and 13 feet 4 inches in the living room and library. This variation in floor level and ceiling heights interest and vitality to what is essentially a rather quietly formal and elegant house.

Most of the furniture was designed specially for the house. The architect designed all built in cabinet-work, shelving, desks and other units. Dining and living room furniture was designed by Hans Krieks and Associates. The dining room is particularly successful, with its unusual view of the living room below and the garden pond, and the attractive tables which can be used separately or placed together for larger dinner parties. The sideboard is suspended from the wall by steel brackets attached to the studs. The warm orange-red carpet in the living areas seems to glow in the sunlight.
EXTERIOR MATERIALS CHosen TO SUIT SITE, CLIMATE AND SURROUNDINGS
The program requirements included a conservatory and a studio-workshop for Mrs. Steinert. The conservatory has been placed outside the living area, where it catches plenty of sun and makes a pleasant outlook from the living room. The studio is located below the master bedroom and has direct access to the garden.

Describing the construction of the house, Frederick Bruck said "the house is wood frame with dark brick veneer. Brick was chosen to blend with the substantial character of the surrounding houses, to reduce maintenance, and because it is a material which could meet the sloping terrain. Wood frame was chosen for economy and to facilitate construction during the winter months. Interior walls are plastered or covered with walnut plywood paneling."

The house has a warm-water radiant panel heating system, with copper tubing in all ceilings, some of the floors and walls. Ductwork is installed for future airconditioning of the whole house; at present only the bedrooms are cooled.
In addition to their trim, well planned architecture, these six development houses form an interesting study in land use. Instead of usual segmentation of the site into standard plots with standard backs, the development clusters the houses about a court in a corner of the property, and thus frees the remainder of the woodland for use as a park. The central court provides direct access to the garage and entrance of each house, as well as space for guest parking. For visual relief, there is a landscaped center island with a fountain. Walled patios, as well as the garages, front each house on the court side to ensure privacy and help somewhat to reduce noise transmission into the house.

Though described as “town houses”, they are actually detached units, linked at the front by fences. The side walls are all but windowless (each has a narrow slit of a window in the master bedroom), again to gain privacy. At the back, toward the more open land, there is a liberal use of sliding glass walls and balconies, a terrace off the lower level guest-recreation room. The latter is gained as a “usable” basement area by utilizing the slope in the land.

Stylistically, the houses are identical, though half have their plans flopped in the opposite direction from the others. However, each unit has enough inherent interest and variety to offset any monotony, thus keeping unusually well to that fine line of unity plus individuality. Part of this balance is kept, no doubt, by the fact that the cluster arrangement prevents one from seeing all of the complicated rear facades at any one time. Though still distinct, each house has a quieter facade fronting the court to give greater unity as a group.

These particular houses are specifically designed for rental, the scheme offers great idea potential for any group of homes where joint maintenance could be arranged for communal areas. Here, the management provides such services as leaf, snow, trash removal, grass cutting and landscape work. Within specific limits, however, there is provision for individual gardening if desi
ARCHITECT: CARL LUCKENBACH

Development House for Willits West Company

Singham, Michigan

Tractor: Willits West Company

CLUSTERED DEVELOPMENT GETS PARK AS BONUS

HAZAR KORAB PHOTOS
ARCHITECTURAL RECORD HOUSES OF 1965
houses in the Willits West development have well arranged, compact spaces. The entry, reached via a covered walk, gives direct access to all rooms in the house without passing through another; a door to the garage permits quick transferal of groceries and the like from car to kitchen. Little space is wasted in halls and circulation—the corridor to the bedrooms is a relatively short one.

The kitchen is also well placed to serve the entire house, as well as the living patio and play yard at the front. Circulation paths to and from various parts of the house are all direct enough to avoid the kitchen being a major lane of cross traffic. Though the house is not a large one, several devices have been used to give variety and a sense of space in the interiors. Living and dining areas have been combined into a fairly large room, and in an "L" shaped arrangement permitting the dining area to be closed off by a folding partition if desired. This major space extended outwards at each end by sliding window wall: onto the patio at the front, and to the balcony and bedrooms at the back. A fireplace gives an added focal point, and is designed as a freestanding unit to somewhat lessen the bulk. The shed roof over this open space to a height a bit over ten feet at the fireplace. To contrast with stress towards openness in the living areas, the roof over the bedroom section is pitched in the opposite direction, with ceilings dropping toward the windows to give a greater sense of shelter.

The houses are wood frame, with insulated and textured plywood exteriors. Interiors are drywall. The cost of this model was about $28,000.
A formalized scheme has been used here with great success to give flexibility and privacy to the actual living spaces within the house. The plan is a highly stylized one, with four “U” shaped wings (enclosed by stuccoed bearing walls on three sides, glass on fourth) arranged in pinwheel fashion around an irregular shaped service core. All fixed facilities, such as kitchen, bathrooms, laundry and circulation, are in this core, permitting any arrangement desired within the bearing walls of the wings. The circulation space within the core itself is given added function by widening it to accommodate a gallery on the lower level and a family-sitting room on upper level. The different levels of the house, which fit the sloping site, are connected by the staircase built around a skylighted space planted with ivy and a large tree.

Although the architect has referred to the “U” shaped wings as “caves”, the effect on the interior is one of variety, brightness and focus on pleasant views. In each, the roof is raised on supports above the bearing walls to create surrounding bays and clerestory windows. The open ends of the wings open to gardens off the living room, a sunken garden off the guest wing.
The Winnick house derives a strong sculptural quality from the interplay of its projecting shapes and the resulting light and shadow on its textured white stucco surfaces. Interiors are also white (smooth painted plasterboard) planned to serve as "background surfaces for art, sculpture, furniture and people." The architect further adds that, "by creating a great variety of spatial experiences (the dining room is seven feet high, the living room carries up the full eighteen feet in height) a great deal of freedom is given the family within an ordered discipline, which establishes family gathering spaces and family private spaces." The system of projecting wings does produce an unusually effective zoning of different activities within a fairly compact plan. And any of the units could be completely shut off without affecting the convenience of the rest of the plan.

The house is constructed with a wood frame on a concrete block foundation, with the exterior finished (as noted before) in stucco. As the walls of the central core are considered to be "outside" the "U" shaped wings, stucco also becomes the wall finish of the gallery and upstairs sitting room. Floors are quarry tile, vinyl or ceramic tile. The approximate cost of the house without lot was $60,000.
ARCHITECT: EDGAR WILSON SMITH

Residence for Edward D. Cauduro
Portland, Oregon

Structural Engineer: Bernard L. Tiland
Mechanical Engineer: Robert W. Zanders
Landscape Architect: Robert Hale Ellis, Jr.

CHARLES R. PEARSON PHOTOS
very tidy scheme has been evolved here to a two-level house into a sloping site—one which avoids many of the complications which can arise from split floor and roof levels. All the living areas of the house are contained in a rectangular, flat-roofed structure, which sits just beyond the first roll of mound. Subsidiary areas (two courts, a storage room, and an open carport) are contained under an extension of the roof at the upper level, and tie the “basic house” to the higher mound. These subsidiary areas also serve the dual function of giving maximum privacy in the street for all living areas. The back of the house is largely glass, looking out to a pleasant view to the southwest.

There are some interesting spatial surprises the house. As one approaches the house, it is low, small scale and enclosed. Frosted glass doors preserve this quality through the entry court. Once inside, one is a balcony overlooking a big view.
The plan of the Cauduro house is an extremely open one, with the guest room the only area that is completely closed off. However, the fireplace wall is designed as an effective baffle to screen kitchen operations at the lower level, and all but the desk area of the master bedroom.

The lower floor is arranged into only two “rooms”, one for sitting and the display of an art collection, the other combining the functions of kitchen, dining room and library. Appropriate detailing, as can be noted in the photos above, helps to create a pleasant entity of these seemingly disparate functions. Simplicity in the finishes (hemlock, terrazzo and painted gypsum board) also help, and contribute a unity throughout the house. Cabinets are faced with walnut.

The structure of the house is planned for easy maintenance, as are the interiors: the frame is Douglas fir, with exterior walls of natural red cedar. The cost of the house is about $35,000.
John C. Portman’s philosophy of architectural form and its use to modulate space and create special relationships between different kinds of spaces, has been embodied in this fascinating house, which he designed for himself, his wife and family of six children. The creation of “space within space” was fundamental to his conception of his own house, and his concern was to create a number of closely defined spaces within a larger space, so that by relating the one to the other, one would gain an impression of the “continuous flow of space.” Describing how these ideas were incorporated in the design and construction of the house, the architect said: “The house is created by composition of component parts, i.e. the curved cypress column walls, sliding doors, the shop-built cabinet walls etc. The space has been exploded creating a sense of the pavilion with a closing of cellular units for privacy as needed. A sense of the whole is felt in all the spaces.”
Throughout the house, these exploded columns appear in varying sizes and have a wide range of functions. Stairs, halls, study-rooms, closets, baths are all enclosed within them. Skylights above, and side openings admit light at unusual angles and prevent the spaces within columns from seeming too enclosed. Outside the house the circular theme is repeated with brick-enclosed terrazzo wading pools and flower beds.

The house is oriented so that the entrance axis is in a direct line to the skyline of the City of Atlanta 15 miles away. Entering the house on the second level, one is immediately conscious of the magnificent skyline view. The indoor trees on the lower level form a perfect frame for the view. A water channel running through the living area provides another touch of visual excitement.

Visually and spatially exciting as it is, the house is also carefully planned for functional efficiency and easy organization of the life of a large family. The liv- ing, formal dining, and master bedroom can be separate from the rest of the house by sliding walnut doors between the formal dining and kitchen areas. The kitchen is placed so that the children's activities in the family room, play area and wading pool can be easily supervised. The cost of the house was about $165,000.
CAREFUL ZONING FACILITATES FAMILY LIVING
TWO EXTERIOR TREATMENTS OF ONE BASIC PLAN

ARCHITECTS: FISHER-FRIEDMAN ASSOCIATES – ROBERT J. GEERING ASSOCIATE

Development house for the Stoneson Development Corporation

Millbrae, California

Contractor: Stoneson Development Corporation

Landscape Architect: Ernest Wertheim

ARCHITECTURAL RECORD HOUSES OF 1965
One of the difficulties in the design of a development house is to provide for enough variations, so that people buying the house do not necessarily feel that their house is identical with their neighbors' home. With this in mind, Robert Fisher designed a basic plan for the Stoneson Corporation, from which two quite different exterior treatments were developed.

Version B, illustrated on this spread, is constructed on a simple post and beam system. The roof is flat over the bedroom area, but comes to a peak over the main living and family rooms, giving variation in room heights. Glazing at either end of the roof peak provides an additional source of daylight, which serves to increase the apparent height of the rooms. Roof beams are expressed throughout the interior, and the roof decking of resawn pine, stained off-white is left exposed on the underside.

One of the main requirements of the program was the provision of as much outdoor living space as possible. Balconies have therefore been included outside the living room, family room and two of the bedrooms.
PYRAMID SHAPED ROOF EXPRESSES HIGH CEILING IN LIVING ROOM

Considerable care was put into the development of the plan, so that it would be suitable for different types of family. Dining and family rooms both adjoin the kitchen, so that either room could be used as a children’s playroom, and be easily supervised by the mother from her work. All bedrooms are a reasonable size and have considerable privacy and could be used as study-bedrooms by school age children. Natural wood ceilings, gypsum board interior walls, hardwood, and vinyl-covered floors make a suitable background for varying tastes in furniture.

Describing version A of the Stoneson development house, the architect said “the bold, truncated medium shake, pyramid roof, capped with a monitor, covers the entire house. The monitor was designed to contain skylight and conceal plumbing vents and furnace flues. The roof overhang was visually extended by the use of floating facia. The living room ceiling is raised in the form of a pyramid, and sheathed with tongued and grooved redwood with a natural finish.”

The house, which was designed for a hillside site, has a garage, laundry and other usable space on the level. Exterior materials were carefully chosen to be resistant to the effects of weathering. With the exception of wood doors and windows, the garage and the stucco story, the entire exterior is stained with a weathering glaze.

Construction cost of the house was about $21,000.
Houses designed by the following firms and individuals appear on pages noted:

OWARD BARNSTONE AND PARTNER, EUGENE AUBRY  66  
F. FREDERICK BRUCK  110  
COLBERT, LOWREY, HESS, BOUDREAUX, FARNET  98  
DAILEY ASSOCIATES  78  
EDWARDS AND PORTMAN  126  
WINSTON ELTING  82  
FISHER-FRIEDMAN ASSOCIATES  130  
EARL R. FLANSBURGH & ASSOCIATES  74  
HUGH NEWELL JACOBSEN  102  
GENE LEEDY  70  
FREDERICK LIEBHAARDT & EUGENE WESTON III  62  
CARL LUCKENBACH  114  
MEATHE, KESSLER AND ASSOCIATES, INC.  90  
WILLIAM MORGAN  106  
HERBERT S. NEWMAN  118  
PAUL RUDOLPH  58  
JOSEPH J. SCHIFFER  54  
EDGAR WILSON SMITH  122  
TERNSTROM & SKINNER  94  
J. WEST AND ASSOCIATES  86

ARCHITECTS OF THE RECORD HOUSES OF 1965
THE COST OF RECORD HOUSES IN YOUR CITY

In referring to Record Houses, our readers have often asked: "What would it cost to build this particular house in my city?"

William H. Edgerton, Editor-Manager of the Dow Building Cost Calculator, has done some research for us to provide the answers for those Record Houses for which cost data was available, as though they were to be duplicated in 14 selected cities located in representative geographic areas of the United States. The figure for each listed city is applicable within a 30-mile radius of that city.

In an effort of this kind, it must be recognized that the figures in the accompanying chart may vary within a 5 per cent range, and perhaps more, should unusual conditions prevail locally. However, over a period of 39 years the Dow Building Cost Calculator has established a good record, and these figures should be quite accurate for their intended purposes.

If you are impressed by certain Record Houses, look up their local estimated approximate cost for the city nearest you. If the figure is attractive to you, consult an architect to see what he can do for you.

Except where noted, the figures given here do not include the costs of land, landscaping, closing costs, fees as noted. *OMITS: land, landscaping, closing costs, fees as noted. †INCLUDES: land, landscaping, closing costs, fees.

RECORD HOUSES 1965 Comparative Building Costs

<table>
<thead>
<tr>
<th>NAME OF HOUSE</th>
<th>WHERE BUILT</th>
<th>CONSTRUCTION COST</th>
<th>ATLANTA</th>
<th>BALTIMORE</th>
<th>BOSTON</th>
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<tr>
<td>Beadle House, Phoenix, Ariz. (78)</td>
<td>37,000</td>
<td>30,950</td>
<td>33,950</td>
<td>36,550</td>
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<tr>
<td>Kirschman House, New Orleans, La. (98)</td>
<td>110,000</td>
<td>101,500</td>
<td>111,400</td>
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<tr>
<td>Stoneson Development House, Millbrae, Calif. (130)</td>
<td>21,000</td>
<td>17,800</td>
<td>19,500</td>
<td>21,000</td>
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<tr>
<td>Gatos House, Weston, Mass. (74)</td>
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<td>63,500</td>
<td>69,700</td>
<td>75,000</td>
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<tr>
<td>Naftalin House, Riva, Md. (102)</td>
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<td>29,150</td>
<td>32,000</td>
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<tr>
<td>Levitt Development House, Rockledge, Fla. (70)</td>
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<td>21,150</td>
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<td>Wiley House, Del Mar, Calif. (62)</td>
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<td>Willits Development House, Birmingham, Mich. (114)</td>
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<td>Cauduro House, Portland, Ore. (122)</td>
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<td>55,450</td>
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The Dow Building Cost Calculator & Valuation Guide is widely used throughout the United States and Canada to indicate replacement costs for more than 700 building types that have counterparts almost everywhere. The costs are revised and supplemented quarterly keeping them in balance with ever-changing prices for building materials and wage rates for building trades craftsmen. Also included is a series of city building cost indices showing city-by-city historical cost changes. Dow building cost data is generally recognized by courts as authoritative, and is used by real estate assessors, fire insurance valuation engineers, architects, builders, mortgage loan officers in financial institutions, real estate agents and appraisers, and a broad list of governmental agencies.

Selected Cities

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<th>Selected Cities</th>
<th>1965 DOW BUILDING COST CALCULATOR &amp; VALUATION GUIDE</th>
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<td>77,000</td>
<td>70,100</td>
<td>65,450</td>
<td>64,700</td>
</tr>
</tbody>
</table>
JENN-AIR offers a selection of single, double and eye-level ovens—plus the new Regal Twin ovens for '65. All utilize JENN-AIR's "professional concept" ventilation to whisk fumes outdoors. True open-door broiling is possible because heated oven air may be removed and replaced with fresh air many times each minute. All advanced features are available. Elegance of design and performance has universal appeal.

JENN-AIR SALES CORP.—DEPT. C
1102 Stadium Drive • Indianapolis, Indiana 46207
Please send me your free 12 page color brochure. ☐ Check here if you wish JENN AIR dealer to contact you.

NAME__________________________
ADDRESS or BOX NO.__________________________
CITY__________________________
STATE__________________________ ZIP____

For more data, circle 39 on Inquiry Card
AIRS BY MIES VAN DER ROHE
ong the Knoll collection of furniture Ludwig Mies van der Rohe, are the chair (top left) and the Tugendhat (top right). The MR chair, de-
ed in 1927, was Mies’ first chair de-
and is available in two versions, the ng model shown and a wider, lower
r for lounge use. Both have saddle
her slings laced over a cantilevered
frame. The leather and stainless
Tugendhat chair which was de-
ed by Mies in 1930 has only recent-
een added to the Knoll collection.
ill Associates, Inc., 320 Park Ave.,
ork 22, N.Y.
CIRCLE 300 ON INQUIRY CARD

LPTURED CHAIR IN
EL AND LEATHER
igned by sculptor, Clement Mead-
e, this version of the sling chair
ner) is contoured for long-range sit-
comfort. Special care has been
 to achieve anatomically perfect
ith the angled steel elements,
support the saddle leather seat
back panels. The angled tops of the
re are fitted into stitched leather
ves” on either side. The dip in the
panel makes it possible for the side
to be used as arm rests. Leif Wess-
n Associates, Inc., 301 East 64th St.,
ork, N.Y.
CIRCLE 301 ON INQUIRY CARD

THITECT-DESIGNED
FURNITURE COLLECTION
new Edgewood collection, designed
r the direction of architect, William
bruster, includes this bench (bot-
right) and small marble topped end
es. Features of the new pieces are
 cut lines and elegant chisel point
 of stainless steel. Edgewood Fur-
te Company, Inc., 208 East 52nd
ork 22, N.Y.
CIRCLE 302 ON INQUIRY CARD

more products on page 140

or more information . . . circle
the key numbers of the products on
ich you want more information
ec number below each product
m) on the Inquiry Card, pages
7-168
The biggest breakthrough in the electric heating industry came when the world's largest makers of homes decided to specify this revolutionary new heating system.

Why not electric heat before? Simply because Jim Price, National Homes' chairman of the board, found that when his dealers installed ordinary electric resistance heating, it took them far longer to sell the homes than with their gas or oil heating equipment.

Why electric heat now? When Jim Price discovered that one of his dealers in Indianapolis using International hot water electric heat was actually selling homes faster than ever before with any type of heat, he investigated immediately. He learned that this dealer was offering International hot water electric heat at the same price as gas heating. And, that of 55 homebuyers given a choice between the two forms of heat, 52 had selected International.

He was amazed further to learn that this dealer was offering a third option: Ordinary electric resistance heating at a cost of $200 less than International hot water electric heat . . . without a single taker.

It's no wonder that Mr. Price has gone all out to promote International hot water electric heat in National Homes new 1965 line of homes. And, to recommend this heating system to his three subsidiaries: Lesco Homes, Inc., Knox Homes, Inc., and Best Homes, Inc. All of these companies are now featuring International hot water electric heat without plumbing.

And brand new from International: hot water electric heat without plumbing for schools at extraordinary low cost.

Here is one of the most revolutionary heating developments ever provided for schools, public places, etc. Each unit is 8" wide, 12" high and 8 feet in length, and delivers 1700 BTUs per foot length (over 11 sq. ft. hot water radiation, equiv.), with 200 CFM outdoor air heated to temperature required. Simply specify number of units required underneath windows at outside walls where heat is absolutely essential. One single control box, same width and height, one ft. long, controls all heaters for each room. Send today for free engineering data, specifications and cost information.

fully guaranteed for ten years

SEND FOR FREE BROCHURE . . . the full story of electric heating; why it has been so costly in the past, and why utilities are now finding International hot water electric heat without plumbing so remarkable in holding such steady and uniform temperatures . . . where it's needed . . . that homes can now be heated electrically at a surprisingly low cost.

YOUR NAME __________________________ PHONE NO. __________________________

ADDRESS _______________________________________________________________

Note: Mail room measurements or plans with this coupon if you desire an engineered heating layout without cost.

-exclusive U.S. Patent No. 2772342
U.S. and Foreign Patents Pending

138 ARCHITECTURAL RECORD HOUSES OF 1965
The same facts also account for International's healthfulness. Dust particles will scorch and turn into cinder at 325°F., temperatures reached by even low-density ordinary electric resistance heaters. These carbon cinders cause wall smudging as well as irritate nose and throat membranes. International baseboards do not reach these scorching temperatures even on coldest days.

Finally, International electric hot water baseboards are the safest heaters on the market. For example, they are the only electric baseboard heaters that can be placed behind the flimsiest drapes with absolute safety. The New York City Building Code will allow only International to be placed behind draperies, doors or furniture.

How does the International unit work?

An electric heating element is encased in a copper tube containing a hermetically sealed solution of water and anti-freeze. When the solution is heated it automatically circulates through the tube. When the thermostat cuts the unit off, warmth continues to be released by the circulating water even during "off-cycles."

These very same facts also account for the remarkable comfort experienced with International hot water electric heat. There are no cold floors, because the floor is only 2°F. cooler than the ceiling. And, there are no cold drafts resulting from "on-again, off-again" heat. Air circulates slowly and smoothly at all times. Neither is there air stratification that can cause clouds of cigarette smoke to form in the room.

Special note to architects and builders:

This equipment is currently being installed in apartments, condominiums and housing projects. You will find public acceptance of this heat astonishingly greater than with any other form of heat, as has been National Homes' experience. Take advantage of all the values of our heating system by specifying it. If they haven't the information already on our equipment, have your local utility, electrical distributor or contractor phone us immediately.

SAMPLE SPECIFICATION: Heating equipment shall be self-contained, permanently sealed. International hot water electric heating baseboards with anti-freeze protection to −50°F., with 10-year guarantee. U.L. NEMA Listing. 240 volt, self-contained air expansion chamber and electrical limit control, individual room thermostats.
nobody but nobody delivers a disposer with more quality features than In-Sink-Erator

Surveys prove women want homes with disposers. This disposer is engineered to set quality and performance standards others would like to live up to!

In-Sink-Erator Model 77 gives the Lady what she wants! Grinds in both directions, doubles shredder life, thanks to patented automatic reversing switch. Exclusive Self-Service Wrench frees accidental jams quickly, cuts customer complaints and costly call-backs. Special Detergent Shield guards against corrosion damage from caustic agents. Nobody offers a 5-year protective warranty the equal of In-Sink-Erator’s!

Write for full information. If you prefer, a representative will call at your convenience.

In-Sink-Erator
Originator and perfecter of the garbage disposer

In-Sink-Erator Manufacturing Company • Racine, Wisconsin

Product Reports
continued from page 137

LEATHER AND CHROME LOUNGE CHAIRS
The smooth contours of this attractive lounge chair are designed for comfort and support. The base is polished chrome, and the upholstery is leather. Foam rubber is used through as padding for the seat cushion. Dimensions: width 34 in., depth 29 in., height 27 in. Dux, Inc., 1633 Ad Rd., Burlingame, Calif.
CIRCLE 303 ON INQUIRY CARD

SIT-DOWN SINK
Designed especially for invalids and elderly, a new stainless steel, double-unit has a shallow compartment on one side, which provides comfortable room underneath. A drain opening accommodate the garbage disposer is located at the rear of the shallow Elkay Manufacturing Company, 2 South 17th Ave., Broadview, Ill.
CIRCLE 304 ON INQUIRY CARD

OCCASIONAL TABLES
The Mitre group of occasional table figured American walnut veneer, designed for home and office purposes. The line at present includes magazine end, and corner tables. The Leop Company, Burlington, Iowa.
CIRCLE 305 ON INQUIRY CARD

For more data, circle 41 on Inquiry Card

For more data, circle 42 on Inquiry Card
ONLY REDWOOD

can fill an interior with the warm beauty of its colors and textures, yet serve as a tough, weather-resistant exterior material without any protective treatment.

For a booklet demonstrating redwood in architects' own homes, write: Dept. A-53, California Redwood Association, 617 Montgomery Street, San Francisco.

The pattern shown is FACTRSawn® Tongue & Groove, a trademarked Certified Kiln Dried product of the member mills of the CALIFORNIA REDWOOD ASSOCIATION.
Janitrol 570 Series Year Round Comfort Package eliminates need for giant central heating and cooling plant in apartment buildings. Features closet-size heating-cooling units and through-the-wall condenser.

Janitrol's 570 Package was made for the man who designs, builds or rents apartments. And for the man who lives in one, too.

The entire heating unit and cooling coil fits into only 12" x 28" of floor space. Tucks easily into the corner of a small closet. Needs zero clearance on the side and back and only 6" in front. Needs only a 4" vent pipe.

The condensing unit is only 39" x 18½" x 18¼". Installs easily through the wall—or on the roof or on an outside slab.

Yet this compact package delivers 2 tons of cooling and 80,000 Btu heating. It was designed for apartments. But it's also the perfect answer to small house year round comfort or large house zoned heating-cooling. Installation is literally a snap. Charged refrigerant lines have quick-connect couplers at both ends.

Janitrol's 570 Comfort Package may well be the best unit for your next job. Available in 1½, 2, 3 ton cooling and 50,000, 80,000, 100,000 and 150,000 Btu Heating Packages.

Get at least one estimate from your Janitrol Dealer. He's in the Yellow Pages. Janitrol gives you more to work with.
YOU WILL SELL MORE BY RECOMMENDING

HALL-MACK QUALITY FOR EVERY BATHROOM

When buying a home, one of the two rooms with the greatest attraction for Mrs. Housewife—and usually for the man of the house, too—is the bathroom!

And in many transactions, it is the unusual touches for bathrooms—the distinctive features that others do not have—that help sell many complete installations.

Here are a few of Hall-Mack’s finest quality bathroom accessories—every one with exclusive and outstanding sales appeal. By making your customers’ bathrooms more attractive and convenient, Hall-Mack quality helps you to clinch and increase many a sale.

BY RECOMMENDING

And in many transactions, it is the touches for bathrooms—the distinctive features that others do not have—that help sell many complete installations.

QUALITY

Here are a few of Hall-Mack’s finest quality bathroom accessories—every one with exclusive and outstanding sales appeal. By making your customers’ bathrooms more attractive and convenient, Hall-Mack quality helps you to clinch and increase many a sale.

FOR EVERY BATHROOM

RECESSED TISSUE HOLDER TAKES LARGE PACKAGE No. 319

HALL-MACK COMPANY 1380 West Washington Blvd., Dept. AR-565 Los Angeles, California 90007

I’d like complete information on these and other Hall-Mack quality bathroom accessories. Please send “Accent on Accessories.”

Name

Company

Street

City...........State...........Zip Code

HALL-MACK SALES MAKERS FOR EVERY BATHROOM

Just mail the coupon today! A new color brochure, “Accent on Accessories” offers a wide choice of original designs, new ideas and exclusive features.

Sold by leading plumbing, tile and hardware dealers everywhere.

For more data, circle 44 on Inquiry Card

Product Reports continued from page 140

GROUP OF NEW CREDENZAS

A series of flush-top credenzas, with bases of either teak or walnut, has recently been introduced. All the units are 29 in. high and 18 in. deep. Tops are available in walnut, teak and plastic. Robert John Company, Department K, 821 North 2nd St., Philadelphia, Pa. 19123.

CIRCLE 306 ON INQUIRY CARD

ROOM AIR CONDITIONERS

The Imperial room air conditioner available in ten different models ranging in capacity from 6,400 to 18,400 BTUH. The unit features a reversible decorator panel giving a choice of walnut, walnut, vinyl or textured vinyl finish to match different interior settings. The model has a directional door which can direct the air flow in any pattern by reducing drafts. The door can deflect air from 15 to 85 degrees toward the ceiling across the room. Rectangular louvers provide additional distribution control. Airetemp Division of Chrysler Corporation, Dayton, Ohio.

CIRCLE 307 ON INQUIRY CARD

more products on page
An important trend today is to total homesite living. Home buyers are looking not only at interiors but at exterior features. They want charm in the home surroundings. For promotion-minded builders the need is answered effectively by Exterior Decorating with Concrete—a new concept in the decorative use of concrete.

It starts with the basic units of any home setting—drives, walkways, patios designed in wholly new and unusual patterns. It means special "designer touches" that give character and distinction.

Concrete is infinitely versatile. It can be patterned, shaped, colored in a thousand ways to fit the personality and style of any house, any landscaping plan and arrangement of plantings. Installed at the model home, decorative features in concrete can readily be offered as options or a part of the package.

On this and the following three pages are shown ideas for decorative uses of concrete developed by landscape architect H. O. Klopp for homes in the $18,000 to $30,000 range. They give you a good idea of the exciting possibilities of exterior decorating with concrete.

"If you are looking for a sure way to add fresh buyer-appeal to your homes try EXTERIOR DECORATING WITH CONCRETE"

Says Harold O. Klopp, well-known landscape architect and chief consultant to the Chicago World's Flower Show

"Turning a yard into a selling feature is simple with concrete." In this design, Mr. Klopp shows a walk of precast concrete rounds set in exposed aggregate concrete made with black Japanese pebbles. This contrasts beautifully with a driveway landing strip of brushed and scored white concrete. A separate "sneak path" of black precast rounds adds interest to the house entry. These designs and surface effects, as well as innumerable others, can be easily and economically duplicated by a builder's own finishing crews.
"Make it a decorative driveway . . . use concrete to add drama!" says Mr. Klopp. Here, a natural concrete surface is given interest, a new look, with a bold pattern of redwood divider strips. Adjoining walks supply an appealing contrast with surfaces of black concrete, broom finished and scored in random rectangles. There's no limit to the ideas that can be created. Exterior decorating with concrete can add unique sales appeal to homes in any cost range.
"I look on concrete as a decorator material for outdoor living features, as well as a construction material.

Most builders have thought of concrete pretty much in terms of its strength and durability and its popular structural uses in homes—and with good reason. But, today this viewpoint is changing. As a landscape architect, I'm really enthusiastic about the striking decorative effects and beauty that concrete can produce. Actually concrete meets the three basic needs in any decorating—texture, color and form. And this is what gives such limitless potential to exterior decorating with concrete."

Texture
Color
Form

In using concrete decoratively, there's practically no end to the beautiful and unusual effects you can get. Surface texture can range from toppings of sparkling chips or fine pebbles to inlaid stone, to broom, comb or burlap drag patterns.

Color? Mix it right into the concrete—pure white to jet black and all the bright hues in between. And concrete takes any contour so it can be formed and tooled to fit every decorative need and idea.

Out of the material itself grows this whole idea of exterior decorating with concrete—and the exceptional opportunity it offers any builder to add a new distinction and competitive selling advantage to his homes at a realistic cost.
Exterior Decorating with CONCRETE

In the sketch below, Mr. Klopp shows how simple but effective use of angles, curves and surface texture creates a concrete patio that’s distinctive and high on livability. It also provides a handsome setting for plants and flowers. The patio itself is exposed aggregate concrete with redwood dividers. It’s bordered by a low planting wall of split-block concrete masonry. The garden walk, too, is textured—in squares of exposed aggregate concrete, set in loose matching aggregate.

“A patio can be an ‘outdoor living room’ with character and charm”

Ideas unlimited. For suggestions and assistance in developing distinctive uses of decorative concrete, call on your ready-mixed concrete producer or your local PCA office. They can also provide any needed technical information. For free booklet on the newest ways of finishing concrete, write the address below. (U.S. and Canada only.)

PORTLAND CEMENT ASSOCIATION
Dept. A5-8, 33 West Grand Ave., Chicago, Illinois 60610
An organization to improve and extend the uses of concrete, made possible by the financial support of most competing cement manufacturers in the United States and Canada
Kohler lavatories in accent colors!
the first really new idea in years

And what a bright idea this is! Use a neutral shade for tub and closet—then let the lavatories stand forth in bold and brilliant contrast. Play red against white; let blue flatter gray; contrast a soft tan with a deep, rich coffee tone. That's Accent Color! To help you make the most of it, Kohler is now fashioning lavatories in five sprightly new shades (that's Antique Red above), each chosen to compliment Kohler white or one of the six regular Kohler colors. Select from three styles in enameled cast iron: Radiant, Farmington, Tahoe. The accent is on color—our new brochure spells out the whole, exciting story. For the brochure and more information see your Kohler distributor or write Accent c/o Kohler Co., Kohler, Wis.

JADE WITH CERULEAN BLUE. Remember when no one even thought of using blue and green together? Now recommend it as an easy to live with combination that fits right into all decorating ideas.

EXPRESSO WITH SUEZ TAN FOR A WARM RICH LOOK. This combination can be either masculine or softly feminine. Suggest colorful towels and accessories in orange, green or earth colors.

CITRON WITH SUNRISE YELLOW. These light, bright colors live together in absolute harmony. There's a whole spectrum of colors to go with Citron and Sunrise Yellow—a new world of decoration.

BLUEBERRY WITH ARGENT GRAY FOR ELEGANCE. This is a quieter kind of drama. The bathtub and other fixtures in a soft silver gray, the lavatories in wonderful blueberry. The results will be beautiful.

KOHLER OF KOHLER
Kohler Co., Established 1873, Kohler, Wisconsin
ENAMELED IRON AND VITREOUS CHINA PLUMBING FIXTURES • ALL-BRASS FITTINGS • ELECTRIC PLANTS • AIR-COoled ENGINES • PRECISION CONTROLS
GLASS CANDLESTICKS
Designed by Oiva Toikka of Finland, these glass candlesticks can be used either singly, paired, or in groups, to provide an unusual decorative effect. These candlesticks are part of a collection of designs in glass by Oiva Toikka and Kaj Franck. D/R International Inc., 53 East 57th St., New York N.Y.
CIRCLE 308 ON INQUIRY CARD

INFRARED CEILING HEATER
A new two-lamp, recessed, infra-red ceiling heater, Model 5002, has been designed for use in bathrooms in new and remodeled homes. A regular R40 lamp may be used in one of the two sockets on the fixture to provide light as well as heat. The unit comes pre-wired for either as a heater, or as a heat and light fixture. The lamps are angled to provide a wide area of heat distribution. Emerson Electric Company, 8100 Irissant Ave., St. Louis, Mo. 63136.
CIRCLE 309 ON INQUIRY CARD

For more data, circle 47 on Inquiry Card

For more products on page 150
DON'T BUILD ANOTHER HOUSE...

until you look into Chrysler Airtemp's brand-new line of gas furnaces!

Your prospects will appreciate the Chrysler quality and dependability built into the modern Airtemp gas heating system you offer them. And you will appreciate the attractive prices your distributor is ready to offer you now on this complete new line of gas furnaces. Features? Here are just a few:

1. Many models available, with a wide range of heating capacities to meet the needs of any home.
2. Highest quality performance at reasonable prices.
3. Specially designed burner burns all types of gas.
4. Ultra-efficient heat exchanger to help lower fuel bills.
5. On all models — Minneapolis Honeywell thermostats are standard equipment.
6. Glass wool insulation to conserve both heat and fuel.
7. Compact — fit easily in small closets and other limited-space areas.
9. Designed for easy add-on cooling.

CALL YOUR DISTRIBUTOR FOR INFORMATION ON AIRTEMP’S NEW GAS FURNACE LINE—

OR WRITE PETE.

Mail to:
Pete Fry, Airtemp Division
Chrysler Corporation
P. O. Box 1037, Dayton, Ohio 45401

OK, Pete. I’m ready to sell and to sail! Rush me complete information on everything I’ve checked below:

☐ Chrysler Airtemp’s hot new line of gas furnaces.
☐ Chrysler Airtemp’s complete line of oil and electric furnaces.
☐ How I can win FREE 8-day Caribbean Cruises for me and my family on the brand new super-liner S.S. Oceanic.

NAME:
ADDRESS:
CITY ______________________ STATE ______ ZIP ________

For more data, circle 49 on Inquiry Card
PIERCED CERAMIC LAMPS
Designed by Lee Rosen, these ceramic hanging lamps are individually hand-thrown on a potter's wheel. Twelve different sizes are available in a variety of shapes. The piercings are also done by hand; a few models are available with long narrow slit openings. Design Techniques, 7 East 53rd St., New York, N.Y.
CIRCLE 310 ON INQUIRY CARD

BUILT-IN VACUUM SYSTEM
The MagiVac built-in central vacuum cleaning system is said to be up to 10 times more powerful than standard portable cleaners. The system consists of rigid plastic tubing which runs through walls and attic, and connects wall outlets with the power unit, which is situated either in the garage or utility room. The fact that the power unit is in a fixed location allows it to be larger and therefore more powerful than portable units. A cyclonic separator uses centrifugal force to trap about 99 per cent of dust, and the remainder is caught on a reusable filter. The system is convenient for most homeowners in that it eliminates with heavy equipment, eliminates the dust bag, and is available for instant use all over the house. The dust receptacle requires emptying only every 3 to 6 months. MagiVac Division, John Mitchell Company, 3800 Commerce St., Dallas, Tex.
CIRCLE 311 ON INQUIRY CARD

NEW FURNITURE COLLECTION
This lounge chair, sofa and occasional table are part of a new series of future known as the Signature series. Materials are walnut, mahogany, English burled pollard oak, foam rubber and down. JG Furniture Company, 165 E. 56th St., New York, N.Y.
CIRCLE 312 ON INQUIRY CARD

Add wings
that are guaranteed 5 years with Sunbrella®

For more data, circle 50 on Inquiry Card
NEW! Adjustable Sliding Door HARDWARE
Easier to Install! Easier to sell!

OT-400 The same OT-400 hangers may be used on either 3/4" or 1 3/8" doors just by reversing their positions. Simplifies ordering for you! Be sure to sell customers on new, easy adjustment feature! All M-D Sliding Door Hardware comes packaged in complete sets.

OT-200 New, faster adjustment feature is only one of many that gets customer's attention and approval! Extra sturdy aluminum track provides positive protection against wheels jumping the track! Hangers are heavy gauge, cadmium-plated steel. Lifetime plastic wheels have built-in lubrication.

Aluma-Slide SLIDING DOOR TRACK
Your customers can use Aluma-Slide on any size cabinet . . . with any panel material. Comes in decorative Alacrome, Anodized Albras, Anodized Albright or Anodized Satin. Sets available for 3/8", 1/2", 3/8", 1/2" or 3/4" sliding panels of glass, plywood, hardboard, etc. Packaged sets ready to use.

FOLDING DOOR HARDWARE
Show customers how easily doors open and close! For closets, wardrobes, dens, bars, room dividers, etc. Ideal for 2 or 4-panel full or half-size interior doors of any thickness. Gives full access to closets, yet saves floor and wall space. Installs quickly! Completely packaged sets for all standard openings.

BUILDERS: M-D products are sold nationally by leading Hardware, Lumber and Building Supply Dealers.

For more data, circle 51 on Inquiry Card
MUST A PATIO DOOR CREATE A CRITICAL AREA?
IOT IF YOU CHOOSE A CARADCO WOOD THERMAL INSULATED DOOR

WOOD • WOOD is 1,770 times better as an insulating material than aluminum, and has natural acoustical qualities. WOOD sets the stage and mood for any decorating decor, stain or paint. WOOD is a proven material that has lasted for centuries. In addition, it is water repellent and preservative treated.

FLOATING ACTION • Floating action rigid vinyl track backed with polyurethane foam provides year around double weather strip contact.

HIDDEN REINFORCERS • Hidden reinforcing heavy "T" extrusions of aluminum around each door provide unparalleled sturdiness.

7/8" INSULATING PLATE GLASS • 7/8" INSULATING PLATE GLASS with 1/2" air space... 7/8" INSULATING PLATE GLASS gives the most resistance against heat loss thru the glass and frosting on the interior... 7/8" INSULATING PLATE GLASS offers clear visibility and reduction of noise.

JUMP-PROOF SCREEN • Jump-proof screen of sturdy aluminum.

"DELRIN" ROLLERS • Delrin rollers in tandem... easy... smooth... effortless operation.

DENSE WOVEN PILE • Dense woven pile weatherstrip seals out drafts at sill.

THERMAL BARRIER SILL • THERMAL BARRIER SILL with heavy oak and aluminum combined in compression to stop transfer of heat and cold... THERMAL BARRIER SILL stops carpet soil... THERMAL BARRIER SILL has extra strength for cantilevering if necessary.

DIMENSIONS

CARADCO INC.
DUBUQUE, IOWA

FOR MORE DATA, CIRCLE 52 ON INQUIRY CARD
MARBLE PATTERNS
including Travertine for luxurious walls in any decor, any building.

DECORATOR PATTERNS
including four Chantilly designs plus Fleece, Lace and Nugget designs.

MARLITE MURALS
including Ponta Roma, River Landing and Williamsburg for custom-decorated walls.

TRENDWOOD FINISHES
Including Colonial Maple and Provincial Walnut for distinctive interiors.

New Marlite Decorator Paneling

Beautiful decorating ideas come easy with Marlite!

Now more than ever, Marlite plastic-finished paneling offers infinite decorating possibilities to help your customers plan distinctive and luxurious interiors. With Marlite’s 1965 line of smart Decorator Paneling, no other material gives you such a wide selection of colors, patterns and designs.

Unique decorator patterns, rich marbles, authentic Trendwood® reproductions, bold new designer colors, and striking new Marlit Murals make this soilproof paneling at home in any decor.

And wash-and-wear Marlite resists heat, moisture, stains and dents. It’s easily installed over old or new walls, never needs painting or further protection. Marlite stays like new for years with an occasional damp cloth wiping.

Get details on Marlite Decorator Paneling from your building materials dealer, consult Sweet’s File, or write Marlite Division of Masonite Corporation, Dept.505, Dover, Ohio.
We are manufacturing experts and specialists of Roll Formed metal trim. Our line includes all standard stock drywall metal products, plus exclusively patented Edge and Corner Guards.

We will make any special trim your job may require.

IMMEDIATE SHIPMENTS
Coast to Coast Warehouse Stocks

NO JOINT CEMENT NEEDED!
Applied before or after board is installed. Combination of inclined plane and rib on back flange creates a positive grip action holding the trim snugly against the board face.

New patented EDGE-LOCK design insures mechanical cement adhesion by means of cement holes under the nose and undercut design.

NO. 133 "L" SHAPE  Same patented EDGE-LOCK features as No. 240 corner guard.

NO. 106 "L" SHAPE  Applied after board is installed.

NO. 108 "U" SHAPE  Extra flange provides additional stiffening and strength.

NO. 134 SQUARE PROFILE WITH PATENTED EDGE-LOCK  Can be used for DOUBLE LAMINATED BOARD SYSTEMS OR SLOTTED JAMB INSTALLATION. Mechanical bonding features same as No. 240 corner guard.

NO. 107 "L" SHAPE PROFILE  Same application as No. 134 described above.

NO. 220 CORNER GUARD  A popular corner guard, double-knurled to provide better cement adhesion.

WRITE FOR CATALOG OF COMPLETE LINE

West Middlesex, Pennsylvania 16159

For more data, circle 54 on Inquiry Card
Radiant Heating System

The Sun-Glo home heating system, which consists of flexible panels of two outer layers of thin vinyl and a filling of nylon net interwoven with thin, zigzagging, resistance wiring, can be rolled onto the ceiling rather in the same way as wallpaper. Attached to the source of electricity, the heating element throws forth waves of radiant energy which is converted to heat when it contacts objects in the room. The system operates at only 100 deg F. Temperature in room is controlled by individual thermostats. The panels can be applied to ceiling in a random pattern or painted or sprayed with acoustical material for textural interest. Operates on 240 volts, with a heat output of approximately 17 watts per sq ft. Goodyear Tire and Rubber Company, Akron 16, Ohio

Circle 313 on Inquiry

Gas Fired Barbecue

The Ranchero II gas-fired barbecues equipped with ceramic briquets radiate an even heat and make outdoor cooking cleaner and easier to regulate. Large enough to take sizeable portions of meat and equipped with a chop potato rack, the unit enables a complete meal for the family to be cooked in a shift. The burner is made of cast aluminum. A rotisserie kit with rack and meat holders is also available. O'Keefe & Merritt Company, 3700 Olympic Blvd., Los Angeles, 90023

Circle 314 on Inquiry

Circulator Shower Unit

Circular shower stalls manufactured from a combination of crushed polyester resins and reinforcing are said to have the advantage of being light weight with consid strength. The units are easy to install and require less space than similar square built-in units. The Swan Company, 721 Olive St., St. Louis, Mo.

Circle 315 on Inquiry

For more products on page

Biggest thing in built-ins since central air conditioning

MagiVac

Built-in Cleaning System

Captures the imagination of every housewife!

A few years from now, the house without central vacuuming will become as obsolete as today's home without central air conditioning! That's why you should include MagiVac in your plans now to safeguard the present and future value of your homes! A miracle of convenience, MagiVac makes ordinary cleaning methods obsolete...eliminates bulky equipment and tangles of cords. Unlike standard dust-bag cleaners, MagiVac sends allergy-irritating dust out of the house...out of the air you breathe! So powerful, it outcleaned the two most commonly used commercial rug cleaners in recent tests by the National Institute of Rug Cleaners.

Details of tests available on request.

John E. Mitchell Company/MagiVac Division

3800 Commerce • Dallas, Texas

Gentlemen: Please rush free literature on the MagiVac central cleaning system.

Signed:

For more data, circle 55 on Inquiry Card

Architectural Record Houses of 1965
Are you going to let plain old dirt spoil the appeal of your next job?

You put your heart into creating a home or building your clients will enjoy and be comfortable in. Then airborne particles such as soot, smoke, dust and pollen do their dirty work on walls, draperies, curtains, furniture... not to mention the discomfort they can cause allergy sufferers. This does little to increase client satisfaction.

The problem: There may be 100 to 500 million particles in every cubic foot of city air. Ordinary mechanical furnace filters are only about 5% to 8% efficient. Generally they catch only some of the larger particles that measure five microns or more.

The solution: The Honeywell Electronic Air Cleaner is a two stage electrostatic precipitator that removes up to 95% of all airborne dust and pollen that passes through it. By actual test it traps particles as small as three hundredths of a micron (particles so tiny it would take about 7,000 of them to stretch across this dot). Tobacco smoke particles fall in this particular class.

Your clients will notice the difference. They will breathe cleaner, fresher air. Their homes or businesses will look better. They’ll save on cleaning bills.

FHA Approved: The Honeywell Electronic Air Cleaner is approved for government and conventional financing. It is easily installed in the duct work of a new or existing forced air system. There’s also a handsome Living Area Control Panel that offers a convenient check of the cleaner’s performance.

Send for product literature: It will help you advise your clients on the latest trend in new home and light commercial construction — Honeywell Electronic Air Cleaning.

Five models available from portable to central systems.

- **38 portable**: electronic air cleaner, 20-CFM cleans area up to 300 sq. ft.
- **F40 Console unit**: Available in 175-CFM or 325-CFM. Cleans area up to 600 sq. ft.
- **Y492**: "whole house" models up to 2,200-CFM. 100,000 to 220,000 BTU’s, 2½-5½ ton capacity.
- **Y449**: residential-small commercial models. Up to 4000 CFM, 200,000 to 400,000 BTU’s, 7-10 ton capacity.
- **Y456A**: residential-small commercial models. "In Place" wash. Up to 4,000 CFM, 200,000 to 400,000 BTU’s, 5-10 ton capacity.

**Honeywell**

For more data, circle 56 on Inquiry Card
Roman splendor on a small lot! The Thermopane® Atrium House

The Romans had a wonderful life. And a great design idea. P a sun-filled courtyard right sm the middle of the house — who could be enjoyed in complete p They even had a word for it. “At

The only thing they seldom have cold weather.

You can improve on their design
Atrium enclosed with Thermopane insulating glass in Andersen sliding doors and fixed window walls.

Thermopane and only Thermopane is backed by 25 years of research and production skill. And it's signed for your protection. Available with clear Parallel-O-Plate® glass or with Heat Absorbing, Parallel-O-Grey® and Parallel-O-Bronze® plate glass for sun control. Libbey-Owens-Ford Glass Company, Toledo, Ohio.

And only L·O·F* makes Thermopane®, in the U.S.A.

For more data, circle 57 on Inquiry Card

ARCHITECTURAL RECORD HOUSES OF 1965 163
WILL YOUR NEW HOME BE LIGHTNING PRONE® or LIGHTNING SAFE?

Why Worry through the next 1,000 thunderstorms?

Modern homes ARE more lightning prone. Lightning causes 37% of fires in outlying areas ... up to 60% of loss claims ... $100 of every $500 of loss. 26.8% of lightning deaths and injuries occur in the home!

SAFEGUARD YOUR FAMILY WITH A BUILT-IN LIGHTNING PROTECTION SYSTEM.

Cost Only pennies per electrical storm, a modest price to pay for peace of mind.

Architects: Get design assistance and literature for specifying. Builders: Ask for information on promoting LIGHTNING-SAFE HOMES.

LIGHTNING PROTECTION INSTITUTE / 2 N. RIVERSIDE PLAZA CHICAGO, ILLINOIS 60606

For more data, circle 38 on Inquiry Card

Product Reports
continued from page 160

HARDWOOD WALL WITH CONCEALED CLOSET DOORS

Rooms paneled with a new type of hardwood plywood can incorporate foldout closet doors which exactly match walls. The illustration shows hardy plywood of pecan, inlaid with strip walnut every 16 in. to give a plant feel. Suitable for residential as we

commercial use, the closet doors made by cutting 4 ft by 8 ft sheet decorative paneling on the 16 grooves, and backing these with other thickness of plywood. Ge Pacific Corporation, P.O. Box 311, land, Ore. 97207.

CIRCLE 316 ON INQUIRY

NEW RESILIENT FLOORING

Selbaflo, a new development in p

flooring, consists of scientifically pared decorative flakes and fluid resin-matrix glaze. The resin is a polyurethane liquid poured and treated to give a tough, resilient seamless surface. Selbaflo, laid thickness of between \( \frac{1}{16} \) in. and is said to give a long-lasting surface which is non-slip and has a 100% recovery factor even after punishment by spiked heels, furniture and equipment casters. A special cushion can be laid under Selbaflo to in resiliency if desired. Selby, Batter Company, 5220 Whitby Ave., Philadelphia, Pa.

CIRCLE 317 ON INQUIRY

HARD WEARING CARPET FOR HOME AND OFFICE

Gropoint Executive is a new al loop pile carpet, which is said to be hard wearing and suitable for heavy use in home or office. Eleven shade available including browns, greens and gold. Bigelow-Sanford 140 Madison Ave., New York 16.

CIRCLE 318 ON INQUIRY

For more data, circle 60 on Inquiry Card

BRIGHT SPOT

Filuma doors blend with all building materials — any architectural design . . . plan a gay, bright garage in your next home with the Frantz Filuma fiberglass/aluminum garage door. Translucent fiberglass panels (white, tan, green or coral) brighten every corner of the garage with natural light . . . adds extra living space. Never needs paint . . . just hose it off to keep it new. Light in weight, too. Special zinc-plated hardware won’t rust. Protected under Patent Nos. 194094, 3104699. Available nationally through lumber dealers. Send for color brochure.

FRANTZ MANUFACTURING COMPANY
Department 24 • Sterling, Illinois
The Nation’s Foremost Manufacturer of Fiberglass/Aluminum Garage Doors.

For more data, circle 59 on Inquiry Card
Timberline by K-Lux

Put up a Timberline suspended ceiling, and you've created a friendly room. Warm and inviting, with the robust look of open beam wood grain design.

Want a dramatic luminous ceiling? Just add K-Lux translucent panels, with the lighting concealed above. For either luminous or non-luminous applications, there's a choice of stylish lay-in panels. The cost is modest.

And the ceiling is permanent. The rich wood grain finish is bonded to steel beams. The color blends beautifully with all kinds of surroundings. Traditional or contemporary. Light or dark.

Timberline is truly the easiest ceiling of all to install. No small parts. No fastening to the wall. Available everywhere from leading builders' supply companies. Send now for descriptive literature.

The K-Lux Snap-Lock Beam System.

You can install it with as little as 1" of ceiling clearance. The illustration also shows the tabs that may be bent out to hold panels in place. The ceiling consists entirely of only three types of parts: 9' or 12' beams, three-foot square panels, and a wall angle that requires no fastening to the wall.
The charm of decorative glass at a fraction of the cost.

K-Lux Architectural and Decorator Panels—K-Lux brings you old and hallowed patterns, richly embossed in permanent plastic. They'll give you lovely decorative effects, without high costs.

You can use K-Lux panels wherever glass goes, and in many surprising places where glass can't go. They're much lighter in weight. And they'll withstand impact many times the shattering point of glass. The panels can be easily cut to any shape and installed by ordinary, everyday construction methods.

Use indoors or outdoors. In shutters, dividers, privacy screens and luminous walls. In entrance foyers, doors, window panes and dozens of other places.

Let your imagination roam free among the many K-Lux patterns and colors. Send for our brochure today.

K-LUX PRODUCTS DIVISION, K-S-H PLASTICS, INC. • 10212 MANCHESTER • ST. LOUIS, MO. 63122
Distributor:

**JET 360 MEANS LESS INVENTORY**
stock only the basic hood and a choice of separately packaged Decor Panels

Fasco's design engineers have solved your range hood inventory problem. With just one basic Jet 360 hood and a selection of Decor Panels, you can fill your customer's needs with minimum investment. Fasco offers a choice of contemporary or traditional front panel styles.

Mr. Builder:

**MATCH ANY KITCHEN DECOR**
AFTER range hood is installed

The Jet 360, while a custom unit, is compact and can be installed by one man at anytime during house construction, ready to operate. Mrs. Housewife can decide on her kitchen decor and colors at the very last moment, and you can match them perfectly. The hood is installed... all that remains is to slip the correct color Decor Panel in place.

**ALL THESE OTHER DISTINCTIVE SELLING FEATURES**

- Pull-Out forded Exhaust
- Flush Mounted with Cabinets
- Two Front Panels Styles—Contemporary and Traditional
- 3-Speed Operation
- Easy One-Man Installation Pre-Wired Circuits
- New Demonstration Display Available
- Features: Easy to Clean • Removable Aluminum Filter • Horizontal or Vertical Venting • Fasco 10˝ Impeller • Twin Lighting

ORDER NOW AND CASH IN ON THIS BRAND NEW RANGE HOOD DESIGN!

FASCO INDUSTRIES, INC.
AUGUSTA AT UNION • ROCHESTER, N.Y. 14602
COMPACT BATH TUB

Designed especially for use in smaller second bathrooms, the Restal receptor tub has been restyled to include a number of new features. The bathing well of this enameled, cast iron tub extends the full width in front and full depth opposite the faucet wall. It then curves diagonally to the faucet area, creating a corner seat and showering footrest, and continues in a straight line to the front rim. The bathing area is full size for children and comfortable for adults. The bath is also particularly suitable for the elderly because of the low 12 in. sides, and comfortable back and foot support. American Standard, Plumbing & Heating Division, 40 West 40th St., New York 18, N.Y.

CIRCLE 322 ON INQUIRY CARD

STAINLESS STEEL SINK WITH LIGHTING PANEL

A new stainless steel sink with the Consolette lighting panel provides the housewife with light where she most needs it and eliminates the need for overhead lighting in the sink area. The Consolette sink, in a 33 in. by 22 in. double compartment size, and 25 in. by 22 in. single compartment model, has a built-in spray faucet, which enables full water flow to be changed to rinsing spray with a quick flick of the finger. Elkay Manufacturing Company, 2700 South 17th Ave., Broadview, Ill.

CIRCLE 323 ON INQUIRY CARD

LEATHER WALL TILES

A new effect in architectural wall has been introduced with the Adrange of tiles, consisting of natural gr leather laminated to a warp-free base and die-cut for exact size and thickness. Available in a range of 18 colors, these tiles are manufactured in 12 in. and 6 squares. American Architectural Products, 250 Passaic St., Newark, CIRCLE 324 ON INQUIRY CARD

more products on page
Here's how G-E Central Air Conditioners solved the problem of even cooling in the multi-room apartments of Robert Schmertz

"Our apartments, which range up to 1,000 sq. ft. and have as many as four rooms, are laid out so that we prefer 1½- and 2-ton G-E Central Systems to give us even distribution of cooling through ductwork at a low operating cost," says Bob Schmertz of Leisure Village, Lakewood, N. J.

"Because some folks feel the heat more than others, they appreciate the fact that with individual central systems, each apartment has its own separate climate control.

"Of course," Mr. Schmertz says, "we chose G.E. in the first place because we know G.E. makes the most reliable products. And with G.E.'s top engineering design, we can count on the most dependable equipment. We're selling well, thanks in great part to G.E."

Quiet, low-cost G-E Zoneline Air Conditioners solved Ben Cogen's Sherwood Park Apartments cooling problems

"G-E Zoneline through-the-wall air conditioners are amazingly quiet, and their low-installation costs fit our needs perfectly," says Ben Cogen, owner of handsome, new low-rise apartments in Lima, Ohio. "Zonelines are attractive, too, both on the exterior and the interior."

"Our apartments are laid out so that a single G-E Zoneline can air condition our three-room suites, and two G-E through-the-wall units take care of our larger four-room apartments. Each tenant can control the temperature in his own apartment. If repairs are needed, it requires shutting down just one unit, and it slides out of its through-the-wall case in seconds. Actually, we're so satisfied with G-E Zonelines, we're putting 40 more in our new apartments."

There's a General Electric air conditioning system that's right for your installation. Get full details from your G-E representative or write Air Conditioning Department, General Electric, Appliance Park, Louisville, Kentucky.

GENERAL ELECTRIC

For more data, circle 72 on Inquiry Card
 Specify glass that

In convenience and economy

PPG Twindow® Insulating Glass gives all the advantages of storm windows without the bother. Wood windows glazed with PPG Twindow® keep rooms warmer in the winter, cooler in the summer. They reduce down drafts—give owners more livable space. They reduce fogging and frosting. Noise is cut down. And they keep heat bills down without the need to put up, take down and wash storm windows.
In safety

**PPG Herculite® K Tempered Safety Glass** is the glass to use in patio doors and wherever glass might get broken. It’s many times stronger than ordinary glass. And if it does break, it breaks into small round pieces that don’t cut. Specify it for shower doors, storm doors, patio doors. For full details on Twindow® and Herculite® write: Pittsburgh Plate Glass Company, One Gateway Center, Pittsburgh, Pennsylvania 15222.

**PPG makes the glass that makes the difference**

For more data, circle 73 on Inquiry Card
THE MOST FOR THEIR MONEY?

With DeVAC THERMO-BARRIER WINDOWS your clients benefit from practical advantages that mean in-pocket savings. Their initial investment in heating and cooling equipment is less. Their savings on fuel costs will continue year after year.

This Kit Can Help You Calculate the Savings

The kit contains:
- Savings estimate cards
- Heating and cooling requirement factors
- Calculations to back these up

Here is an example of how this kit recently was used. In a college dormitory with 23,100 square feet of window opening, the savings of DeVac double-glazed windows versus single glazed were estimated to be $14,230 in initial heating equipment, $34,650 in air conditioning equipment, plus a year-after-year savings of thousands of dollars in heating and cooling costs.

Write for your free kit today.

We'll be glad to send you a copy of an independent analysis of field tests comparing DeVac Thermo-Barrier double glazing with single glazing and with twin-pane type of double glazing.

See our catalog in Sweet's.
Among the houses receiving Architectural Record's annual "Award of Excellence for House Design" is this residence conceived by Meathe, Kessler and Associates, Inc. The selection of B&G Hydro-Flo products for the forced hot water heating system of the house provides comfort equipment known for quality and performance.

The B&G Hydro-Flo System clearly demonstrates the benefits of water as a heating medium. The heat supply is automatically and closely modulated to maintain constant comfort, no matter how the weather changes. No sharp variations in room temperature... no drafts... no overheating discomfort and fuel waste, especially in spring and fall when only a little heat is needed. Snow melting panels and zoning are optional features.

B&G Booster pumps, for circulating the system, have for years given proof of complete dependability. They are specifically designed to meet the exacting requirements of forced hot water heating systems... quiet and long-lived!

Address literature requests to ITT Bell & Gossett Hydronics, division of International Telephone and Telegraph Corporation, Morton Grove, Illinois, Dept. 1M-32-2.
Over the years, “Record Houses” architects have selected G-E kitchen appliances more than 2 to 1 over the next leading brand.
Record Houses’ was first issued, hundreds of spectacular new designs have been featured in this edition of Architectural Record.

In the same period, 501 kitchen appliances have been specified by architects. General Electric appliances have been specified 201 times. The next leading brand was specified 88 times. The items selected included G-E refrigerators, food freezers, dishwashers, ranges, food waste Disposall® units, thru-the-wall air conditioners, laundry equipment including both washers and dryers, and home intercom systems.

Certainly the advanced design of G-E products justifies this preference. So, too, does the continuous addition of new work-saver features to these appliances and G.E.’s great reputation for quality and dependability.

Also of great importance to architects is G.E.’s readiness to work with them in all areas of kitchen design, from planning a general layout to selecting exactly the right appliance for a particular kitchen.

If you haven’t yet taken advantage of this extraordinary G-E service, don’t hesitate to do so. Your local General Electric distributor is not only waiting but anxious to help you.

This luxurious kitchen by General Electric spotlights the imaginative, ultramodern design that makes G-E kitchen appliances such overwhelming favorites with the men who design houses and the women who live in them.
New Literature for Home-Planning

For more information circle the key numbers of the literature you want (see number below each literature item) on Inquiry Card, pages 167-168

SAUNA
A well-illustrated fold-out, drawn up by this company which manufactures heating elements for the dry-heat baths, provides basic plans and specifications for do-it-yourself installation. Sketches show six possible types and sizes of sauna units for the home. General Electric Company, 1 Progress Rd., Shelbyville, Ind.*

CIRCLE 400 ON INQUIRY CARD

CERAMIC TILE
A new color catalog illustrates 64 different tiles and 87 patterns available on open stock in the Romany-Spartan series. Floor, wall and counter tiles are coordinated with the fixture colors of leading manufacturers. United States Ceramic Tile Company, 217 Fourth St., N.E., Canton, Ohio*

CIRCLE 401 ON INQUIRY CARD

AIR CONDITIONING
Room air conditioning units in three different capacity ranges are shown in a six-page folder, which includes specifications for each unit. York Corporation, York, Pa.*

CIRCLE 402 ON INQUIRY CARD

RESIN-SET QUARTZ PANELS
A 4-page folder (AIA 8-C) illustrates a new building material, natural crushed quartz set in clear or colored poly resin. Characteristics of "Royce Rock" are given, along with a list of possible uses: counter tops, wall facing, etc. Sierra Manufacturing Company, Inc., Murphy, N.C.

CIRCLE 403 ON INQUIRY CARD

IRON HARDWARE
A 16-page catalog No. 14A, (AIA 27B) is now available which contains door latches, hinges, locks and brackets in forged iron. Gated net hardware and mailboxes are also shown. Each item is illustrated, and specifications are given. McKinney Sales Company, Scranton, Penn.

CIRCLE 405 ON INQUIRY CARD

FABRIC WALL COVERINGS
An 8-page folder contains actual samples of wall fabric "locked" in vinyl plastic (AIA 28-C). Linen, rush cloth and jute fabrics are shown, as well as a botanical series. Polyplush United Inc., Union, N.J.

CIRCLE 406 ON INQUIRY CARD

LAVATORY COLORS
Five new "Accent" colors for basins, shown in actual bath settings and coordinated with the manufacturer's standard color samples, are shown in an 8-page booklet. Kohler Company, Kohler, Wis.*

CIRCLE 407 ON INQUIRY CARD

*Additional product information in Sweet's Architectural Plus.
more literature on page

disappearing act...
Completely automatic underground sprinkler system for as little as $100

What a sales tool!

Quick, low-cost installation. Your own crew can install a system covering 50' x 50' (see below) in two man hours, the system shown above in less than eight man hours. No special plumbing or electrical work required.

Fully automatic. The electric control center works like a clock radio. It turns sprinklers on and off at times selected even when nobody’s home. System can be operated manually for model home demonstrations.

Get more facts. If you’re looking for a new, low-cost sales tool with a high dollar image, investigate Moist O’Matic. Contact your Toro Distributor. He’s listed in the Yellow Pages under “Sprinkler Systems.” Or write direct to Toro, 8111 Lyndale Ave. South, Minneapolis, Minn. 55460.

Moist O’Matic® Lawn Sprinkler System
8111 LYNDALE AVENUE SOUTH, MINNEAPOLIS, MINNESOTA 55460
Famous for power mowers for over 50 years.

For more data, circle 79 on Inquiry Card
And now American-Standard brings you

The quietest toilet you never

for the most luxurious bathrooms you’ll ever design.
Wouldn’t you welcome a toilet that flushes in a whisper, never needs handle jiggling, won’t overflow and ventilates itself (yes, ventilates self) every time it’s used?

Here it is! A quick look will tell you this American-Standard Luxor* is totally new. The tank is tucked down low, almost out of sight. Flush the new Luxor and you can hardly hear it, it’s so quiet. Bowl and tank are one piece of fine vitreous china, so easy to clean. But this unique toilet promises more. The novel Vent-Away* toilet ventilator is built into the Luxor. At a touch of the flushing handle it whisks toilet odors down the drain before they become bathroom odors. The Vent-Away is fast and thorough, with no mechanical parts to install, adjust or service.

This is the finest, most luxurious toilet available at any price. It is worthy of the most sumptuous bathrooms you design. For more information see your American-Standard representative or write American-Standard, Plumbing and Heating Division, 40 West 40th Street, New York, N.Y. 10018.
New Literature

LIGHTING
A full-color, 104-page booklet (AIA 31-F-2) is now available, containing 754 different lamps and accessories. Special purpose models—heat lamps, light-ventilator units, illuminated ceilings—are included, as well as specifications and dimensions for all styles. Residential Lighting Division, Thomas Industries Inc., 207 East Broadway, Louisville, Ky.*

CIRCLE 408 ON INQUIRY CARD

ACRYLIC PLASTIC
A series of “Plexiglas Homeowner Booklets” present various possible uses of acrylic plastic in the home. Basic specifications and installation requirements are given for room dividers, ceilings, sliding doors, etc. Rohm & Haas, Philadelphia, Pa.*

CIRCLE 409 ON INQUIRY CARD

CERAMIC TILE
Illustrated in full color, this brochure presents 6 different types of tile in room settings. Available for ten cents from Dept. AO-102, American Olean Tile Company, Lansdale, Pa.*

CIRCLE 410 ON INQUIRY CARD

SWIMMING POOL HEATER
An 8-page brochure gives detailed information about pool heating units, and includes a table for computing the size installation needed for pools of different capacities. Raypec Company Inc., 2430 Chico Ave., El Monte, Cal.

CIRCLE 411 ON INQUIRY CARD

RADIO-INTERCOM SYSTEM

CIRCLE 412 ON INQUIRY CARD

VINYL WALLCOVERING
A 6-page foldout illustrates 15 “handprints” available on 60 basic patterns of vinyl wallcoverings. Special charges custom designed patterns are included. L. E. Carpenter, Company Inc., Empire State Building, New York, N.

CIRCLE 413 ON INQUIRY CARD

DOORS AND WINDOWS
Full color folders illustrate wood doors and windows v glass panes and Mullions which can be removed for easy cleaning or painting. Installation details are included in the f outs, available from the Wabash Screen Door Company, 1 Florida St., Memphis, Tenn.

CIRCLE 414 ON INQUIRY CARD

ATTIC FANS
Ventilation principles and how to select the correct size type of fan are explained in a new booklet. Several syst and methods of installation are pictured, and fans, shut and accessories are also included. The Lau Blower Comp 2027 Home Ave., Dayton, Ohio.

CIRCLE 415 ON INQUIRY CARD

*Additional product information in Sweet’s Architectural File

For architectural specifications on Cabot’s Paints & Stains, write to:

SAMUEL CABOT INC. 529 S. Terminal Trust Bldg., Boston, 10, Mass.

For more data, circle 81 on Inquiry Card
CHROMALOX ELECTRIC HEATERS GIVE HOMEOWNERS THE "MOST WANTED" FEATURES

Chromalox baseboard heaters for new homes and add-ons

Whether you are installing Chromalox Electric Baseboard Heating Units in new homes or for modernization and add-ons, you'll find them easy and quick to install. Units are low in cost, can be tailored to meet the specific heat requirements of any home or room. Chromalox Baseboard Heaters give draft-free heat that can be thermostatically controlled room-by-room.

Other fine Chromalox comfort conditioning equipment

for surface or recessed mounting

Chromalox radiant and forced-air heaters

Take your choice—silent fan-driven Chromalox Heaters perfect for add-on or existing rooms; or Radiant Heaters for heating bathrooms, hallways and similar small areas. Units have built-in thermostats for exact temperature control. Easy-to-make electrical connection is all that's needed for each unit.

Chromalox electrend counterflow units

Here are efficient units that take absolutely no floor space, yet can be installed in existing construction or add-on rooms. Units take air from ceiling level, gently draws it across electric heating elements and distributes the re-warmed air at floor level. Each unit is controlled by its own built-in thermostat to give room-by-room comfort. Models available for recessed or surface mounting.

Send coupon for details

EDWIN L. WEIGAND COMPANY
7741 Thomas Blvd., Pittsburgh 8, Pa.

Please send me Bulletin R00103

Name
Firm (if any)
Address
City, Zone, State
☐ I am a homeowner ☐ I am a contractor
☐ I am an architect ☐ Other

ARCHITECTURAL RECORD HOUSES OF 1965 187

For more data, circle 82 on Inquiry Card
Wood windows vs. metal windows: here are the facts.

A metal window frame is cold. Cold to touch. Cold to be near. It’s the nature of metal, caused by what heating engineers call excessive thermal conductivity.

**Are metal windows really “refrigerators?”**

Unfortunately, it’s true.

<table>
<thead>
<tr>
<th>HEAT</th>
<th>LOSS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood</td>
<td>Steel</td>
</tr>
<tr>
<td>25 BTU's per hr.</td>
<td>9,984 BTU's per hr.</td>
</tr>
<tr>
<td>Glass</td>
<td>Aluminum</td>
</tr>
<tr>
<td>186 BTU's per hr.</td>
<td>45,312 BTU's per hr.</td>
</tr>
</tbody>
</table>

*Findings listed below show heat loss of various materials 1” thick, 12” square, with only 32 degree difference between inside and outside temperatures.*

The chart tells the whole sad story. Aluminum conducts heat over 1770 times as fast as wood. Thus a wood window frame is over 1770 times as effective in preventing costly heat losses through radiation as aluminum, the most common type of metal window frame.

Take a single-glazed window unit with an 80% glass area. This unit, manufactured from wood, insulates 22% better than when made of aluminum. And when insulated glass is used, that figure soars to 36%.

Cold metal surfaces, as they conduct heat from a room, also conduct heat from the body, causing chills. In addition, as warm air comes against a cold surface, it cools and drops rapidly to the floor. This creates a cold draft.

In fact, these metal-caused cold drafts can reach velocities of 12 feet per second. Pretty windy for a family living room.

Since wood, by its nature, is so superior an insulator against heat radiation, you can expect well-hung quality wood windows to be virtually free of the greater heat loss and chilling drafts caused by metal window units.

Excessive thermal conductivity in metal causes another problem, too. Condensation.

To be comfortable, every house should have humidity. (About 30-35% is average.) But when this normal humidity touches a freezing metal window frame, it condenses.

Condensation can build up with amazing rapidity on metal frames...even form ice. And...water drips...all over the sill, the moulding, and the wall. This can be damaging, costly...and infuriating to a housewife whose wallpaper has been ruined. This type of condensation is impossible with quality wood window frames.


Here are the cold hard facts about metal windows.

<table>
<thead>
<tr>
<th>Inside Surface Temperature of Aluminum and Wood Sash.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room temperature 70° with wind velocity 15 mph.</td>
</tr>
</tbody>
</table>

- **Metal Sash**
- **Wood Sash**

---

In summer, heat radiation is still at work—and the metal frames that made rooms colder in winter make rooms hotter in summer.

Of course, air conditioning can keep any house cool—at a price. But here again, the cost of air conditioning a home with metal windows has to be higher than a home with ponderosa pine windows if all other factors are equal.

**Get the undiluted truth on condensation.**

---

Wood windows are a matter of good taste, too.

Today's creative architects and builders are constantly searching for new dimensions in home design.

This calls for imagination and insight. It also requires a nearly infinite variety of window styles and designs for them to choose from.

Beautiful ponderosa pine wood windows offer this variety. Stock ponderosa pine windows are readily available in every type, every style and every size imaginable.

Is it any wonder that more architects, more builders and more home buyers are insisting on the natural beauty and practicality of wood windows?

Of course there are still some people who take windows for granted. But you can change all this and profit from it, too. Trouble-free windows make quicker, happier sales.

Just point out that windows are 30 to 70% of the exterior of a home. Explain that choosing the right window is much, much more than a simple matter of cost or practicality. It's also a matter of good taste.

And good taste says just one thing: a fine home just has to have wood windows.

---

**Visible Condensation of Inside Surfaces.**

Room temperature 70° with wind velocity 15 mph.

---

Reprints of this message available free upon request.

**PONDEROSA PINE WOODWORK**

39 South La Salle Street

Chicago, Illinois 60603

For more data, circle 83 on Inquiry Card
New Literature continued from page 186

LAVATORY CABINETS
Ready-made sink enclosures, faced with formica, are shown in color renderings of 8 different styles. The folder also includes a listing of sales offices. Formica Corporation, 4614 Spring Grove, Cincinnati, Ohio. Circle 416 on Inquiry Card

KITCHEN APPLIANCES
Both gas and electric stoves are shown in two 8-page booklets illustrating built-in models. Specifications and cut-out dimensions are given; range hoods and disposal units are pictured. Vernois Company, 114 West 11th St., Kansas City, Mo. Circle 417 on Inquiry Card

PEDESTAL TABLES
A well-illustrated catalog displays chrome base, wood or laminate top tables for office, home or library use. Study carrels and book stands are shown, and price list is included. Hugh Acton, 588 Broodside, Birmingham, Mich. Circle 418 on Inquiry Card

ACRYLIC PAINT ADDITIVE
A 38-page book reviews tests of “Rhoplex” emulsions, designed to improve the durability of paint applied to wood or masonry. The proper ratio of paint to emulsion for each surface is suggested and application methods are described. Resins Dept., Rohm & Haas Company, Philadelphia, Pa. Circle 419 on Inquiry Card

GAS-FIRED FIREPLACE
A 4-page brochure describes the Regency free-standing place, and gives specifications and installation requirements. The Majestic Company, Inc., Huntington, Ind. Circle 420 on Inquiry Card

LIGHTING FIXTURES
A 52-page catalog (AIA No. 31-F-2) is now available on this line of lighting fixtures. Pictured in full color are temporary and traditional chandeliers, wall brackets, and other models. A price list is included. A. W. Pistol, Inc., Drake Ave., New Rochelle, N.Y. Circle 421 on Inquiry Card

WOOD DOORS
This 15-page booklet (AIA No. 19-E-1) contains specifications, construction details, and guarantee for the Roddis. Included are fire, sound retardant, X-ray and institutional doors, in addition to models for home installation. W. Haeuser Company, Box B 271, Tacoma, Wash. Circle 422 on Inquiry Card

SECURITY LIGHTING
A 4-page reprint from Lighting magazine explains the principle of the photoelectric cell that automatically turns on lights at dusk. The article outlines the security aspects of commercial outdoor lighting, and describes methods of installation. Ligguard Electronic Manufacturing Company Inc., 1213 Engel Hardin, Houston, Tex. Circle 423 on Inquiry Card

*Additional product information in Sweet’s Architectural File

PRESTEEL STAIRWAYS BY Woodbridge

The finest for new homes, or conversions. No welding necessary, one man can erect them. Standardized design makes parts interchangeable. Choice of wood treads, many colored plastic handrails available.

**Woodbridge**

**ECON-SPIRAL STAIRWAY**

Designed to meet the requirements of a low-cost spiral stairway. One man installation. High quality, safety features. Left or right hand ascents. Choice of four diameters. Heights up to 120°. Only $22.00 per ft. (height).

**WOODBRIDGE ORNAMENTAL IRON CO.**

2715 N. Clybourn Ave., Chicago, Illinois 60614 Wellington 5-1500

For more data, circle 84 on Inquiry Card
New Literature
continued from page 190

LOOR MATS
A 3-page folder describes the Storm King brush mat that protects heavy-traffic floors and rugs from dirt and moisture damage. The Slater Company, 300 W. Hubbard St., Chicago, Ill.
CIRCLE 424 ON INQUIRY CARD

CHANGE HOODS
A full-color brochure (AIA 30-D-1) gives specifications for the “Chuck Wagon” hood and blower, designed for barbecues and other heavy-duty uses. Broan Manufacturing Company, Hartford, Wis.
CIRCLE 425 ON INQUIRY CARD

GRADE-LEVEL WOOD FLOORS
CIRCLE 426 ON INQUIRY CARD

BUILT-IN CLEANING SYSTEM
An 8-page brochure presents the Vacu-Flo cleaning unit: that it is, full specifications, and the recommended method of installation. The system can be built into old as well as new houses. H-P Products, Inc., Louisville, Ohio.
CIRCLE 427 ON INQUIRY CARD

REPAIR COMPOUND CHART
A fold-out suitable for insertion in ring binders gives the manufacturers' recommended uses for 10 repair, adhesive, or sealant compounds. The illustrated chart matches the product to the job: wood, metal, ceramic, canvas, etc. Dept. 133, Smooth-On Manufacturing Company, Jersey City, N.J.
CIRCLE 428 ON INQUIRY CARD

BATHROOM CABINETS
Two cabinets with a keyless lock designed to prevent access by children under the age of six are featured in this 1965 catalog (AIA-29). Also included are wall-hung or recessed units, some models with replaceable insert-panels or louver doors. The 24-page brochure is available from the Grote Manufacturing Company, Madison, Ind.*
CIRCLE 429 ON INQUIRY CARD

ALUMINUM LADDERS
Nine ladders for home and industrial use are pictured in a 4-page folder. Included is a multi-purpose model designed for use on uneven ground or stairs. Patent Scaffolding Company, 38-21 Twelfth St., Long Island City, N.Y.
CIRCLE 430 ON INQUIRY CARD

CERAMIC TILE
A 6-page brochure presents the colors available in Trend Tile. Full specifications are given in the folder. Building Products, Interpace, 2901 Los Feliz Blvd., Los Angeles, Calif.*
CIRCLE 431 ON INQUIRY CARD

*Additional product information in Sweet's Architectural File

For more data, circle 85 on Inquiry Card

ARCHITECTURAL RECORD HOUSES OF 1965 191
It pays to specify Westinghouse. Nobody else gives you so many ways to solve a problem your way

At Westinghouse, we think an appliance should know its place. And its place is where you want to put it. That's why we make the most versatile line of appliances in the business. So you can specify Westinghouse and get exactly what you want to fit your needs.

Let's begin with refrigerators. If there's a space problem, our 9.1 cu. ft. Westinghouse Model RVF05 is just 24 inches wide. Even with the door open. At the other end of the line is Model RJF41. A big 13.5 cu. ft. Frost-Free refrigerator-freezer.

In electric ranges, our 21" Model NFE1B is perfect for compact kitchens. It's a complete unit, all the way to the floor. Stylish but inexpensive. On the deluxe side, our 30" Model KEE3B, Terrace Top Range® has double-oven, rotisserie and Roast Guard.

Dishwashers have become a "must" in modern homes and apartments. Model SUF4D is designed especially for economy installations. Model SUF4A is a 5-cycle dishwasher for luxury housing.
Where laundry equipment is to be housed within an apartment or small cistern, only Westinghouse has Washing Twins that stack to fit almost anywhere. Your choice of gas or electric dryers. In a central laundry, Westinghouse coin-operated washers have been proven by years of rugged, dependable service in self-service laundries.

Westinghouse room air conditioners come in a variety of thru-the-wall units. All may be positioned flush with the outside wall for trim good looks. Split System units provide compact central cooling for a house or individual apartment.

Just one call puts you in touch with a complete line of Westinghouse residential products. Appliances, heating & cooling equipment, lighting, wiring, elevators, laundry equipment, even Micarta® plastic surfacing.

Make that call now to the Residential Sales manager at your nearest Westinghouse Major Appliance Distributor. See our new 1965 Residential catalogue, or consult Sweet's Light Construction or Architectural Files.

You can be sure if it's Westinghouse

For more data, circle 86 on Inquiry Card
New Literature
continued from page 191

AIR CONDITIONING, HEATING
Specifications for more than 100 gas, oil and electric furnaces, space heaters, and room or central air conditioning are given in a 16-page book. Gas and electric water heaters are also included in the fully illustrated pamphlet. The Coleman Company, Inc., Heating and Air Conditioning Division, Wichita, Kans.
CIRCLE 432 ON INQUIRY CARD

GLASS
An informative, well-photographed book explains the glass-making process and its history, and presents some new developments, for example, glass that bends and photochromic glass that darkens on exposure to light. Public Relations Department of the Corning Glass Works, Corning, N. Y. * CIRCLE 433 ON INQUIRY CARD

WOOD-PRESERVING OVERLAY
A 6-page illustrated booklet describes FORBON, a plastic overlay designed to improve characteristics and uses of low-grade wood. National Vulcanized Fibre Co., 1065 Beech St., Wilmington, Del.
CIRCLE 434 ON INQUIRY CARD

KITCHEN VENTILATORS
An 8-page catalog (AIA 30-D-1) gives full specifications and dimensions for stove hoods and kitchen and bath ventilators. Trade-Wind, 7755 Paramount Place, Pico Rivera, Calif.
CIRCLE 435 ON INQUIRY CARD

interior elegance

HINGES ON . . . SOSS
Soss hinges are called "invisible" because when doors are closed, the hinges lie themselves neatly out of sight. Where doors meet walls, space gaps and doorjambs are eliminated. Flowing, unbroken lines are created that please the eye and add custom richness to the room. Leading architects have been recommending Soss Invisible Hinges for over fifty years because the touch of elegance they add makes buildings and homes so much more "livable".

For full information and prices, write to:
Soss Manufacturing Company
24558-60 - P.O. Box 38
DEtroIT 13, MICHIGAN

For more data, circle 87 on Inquiry Card

LOUVER WINDOWS
Several styles of awning windows, available in insulating gls are shown in a fully-illustrated, 32-page catalog. Jalousie, be and removable sash models are included. Woodco Corporation, North Bergen, N.J.* CIRCLE 436 ON INQUIRY CARD

WINDOW SHADES
Vinyl-treated pull shades are now available in four differ screen-printed patterns, in several color combinations. A fol containing samples of the shade fabric can be obtained from the manufacturer. Breneman-Hartshorn Inc., 1133 Sycamore St., Cincinnati, Ohio CIRCLE 437 ON INQUIRY CARD

WEATHERSTRIPPING
A recently revised booklet, (AIA 35-P-6) explains the differ ent types and applications of weatherstripping, including various methods used for protection from drafts, moisture noise, light, etc. Written objectively, the 22-page book is detailed and well-illustrated. Penko Manufacturing Company Emeryville, Calif.* CIRCLE 438 ON INQUIRY CARD

GARDEN ACCESSORIES
Aluminum lawn edging, trellises, markers and other equipme are shown in a full-color foldout; Retail prices are includ Nichols Wire & Aluminum Company, Danversport, Iowa* CIRCLE 439 ON INQUIRY CARD

*Additional product information in Sweet's Architectural File
more literature on page 195
tough enough for kid stuff

CHURCH

"the best seat in the house"

The beautiful styling of Church residential seats is overshadowed only by the customer satisfying service they offer. All models are quality engineered and beefed-up to withstand the toughest conditions. • Low cost Church #540 alkyd molded seats inherit ruggedness from a special process which bonds a mixture of choice hardwood fibres with super strength phenolic resins under tremendous pressure. A baked-on melamine finish provides lustrous beauty and high resistance to wear and moisture. • Luxurious Church solid plastic seats—from the moderately priced #3 and #37 series to the heavy duty #300—possess extraordinary strength and a jewel-hard surface. A wide selection of molded thru colors are available to match the fixtures of all leading manufacturers. • For full information on the complete Church line, see your Church distributor or write for free 24-page catalog #16.

Church seats were specified in 12 of 13 Record Houses of 1964 surveyed.

EXCLUSIVE CHURCH "EASY-OFF" HINGE is available on deluxe heavy duty solid plastic seats and the new high-fashion Church #37. It permits removal of seat and cover for thorough cleaning and sanitation. All Church residential seats are fitted with sturdy metal hinges covered with matching colored plastic for added beauty and protection from tarnish and corrosion.
Tomorrow, scientists may discover the cause of leukemia.
But today we need your help.

The American Cancer Society is devoting more research money to leukemia than to any other form of cancer. Many different possibilities are being explored—viruses, anticancer drugs, early diagnosis, immunology, bone marrow transplantation.

Progress is being made. Lives are prolonged by many months, sometimes by years, with drugs and other therapy. The course of leukemia has been slowed and even temporarily halted by chemicals and blood transfusions.

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AMERICAN CANCER SOCIETY
Architects Want the Inside Story

1. Top rail nylon guide (M) panel
2. Head guide rail
3. Top rail channel (M) panel
4. Stile reinforcer (F) panel
5. Rubber bumper
6. Meeting stile interlock (F) panel
7. Bottom rail roller channel (M) panel
8. Roller assembly
9. Roller assembly adjustment screw
10. Sill assembly
11. Latch lock assembly
12. Lock stile reinforcer (M) panel
13. W/S head stop (mitered)
14. Head stop
15. Screen head rail

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Woodco Corporation
224 Walker Street, Lowell, Mass. 01850
North Bergen, New Jersey 07047

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ARCHITECTURAL RECORD HOUSES OF 1965
New Literature
continued from page 194

TILE INSTALLATION
A 20-page handbook demonstrates, with illustrations, Tile Council-approved methods of applying ceramic tile to interior and exterior surfaces, including refrigerator and steam rooms and swimming pools. Setting and grouting materials are discussed, and the proper applications and cleaning techniques for each given. Tile Council of America, 800 Second Ave., New York, N.Y. *

CIRCLE 440 ON INQUIRY CARD

AUTOMATIC HUMIDIFIER
The Humidipack humidifier, mounted in the supply plenum or trunkline of a forced air heating system, will automatically bring the moisture content of air to a desired level. A four-page folder explains details of the system and also gives data on operation and installation. Thatcher Furnace Division of Crane Co., Dept. 228P, Center St., Garwood, N.J.

CIRCLE 441 ON INQUIRY CARD

WOOD WINDOWS
A 4-page brochure with colored illustrations gives details of the company's range of wooden windows and patio doors. Photos show double-hung and casement windows, removable gliders, self-locking awnings and rolling patio doors installed in different types of buildings. Diagrams are included to show installation details. R.O.W. Window Sales Co., 1465 Academy, Ferndale 20, Mich.*

CIRCLE 442 ON INQUIRY CARD

W O O D D E C K S
Photographed in full color, an 8-page booklet presents designs by twelve architects, for outdoor wood decks. Shown in the booklet are several possible locations and uses for decks expanding the living area of a house. Western Wood Products Association, Yenon Building, Portland, Ore.

CIRCLE 445 ON INQUIRY CARD

FREEZERS AND RANGES
Two series of fact-sheets (AIA 30-F6, 35-C11) present the 1965 line of Whirlpool freezers and gas and electric stoves. The sheets, illustrated in color, also give specifications and warranty details for each model. RCA-Whirlpool Corporation, Benton Harbor, Mich.*

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*Additional product information in Sweet's Architectural File

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PHOTOGRAPHERS OF RECORD HOUSES OF 1965

Photographs of the houses by the following photographers appear in articles on pages noted

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BALTAZAR KORAB 90, 114
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LELAND Y. LEE 94
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FRANK LOTZ MILLER 66, 98
1115 Washington Avenue
New Orleans, Louisiana

JOSEPH MOLITOR 54, 82, 118
112 Pine Avenue
Ossining, New York

LIONEL MURPHY 86
1948 Bahia Vista
Sarasota, Florida

CHARLES R. PEARSON 122
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Edmonds, Washington

LOUIS REENS 74, 110
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New York, New York

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202 ARCHITECTURAL RECORD HOUSES OF 1965
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