

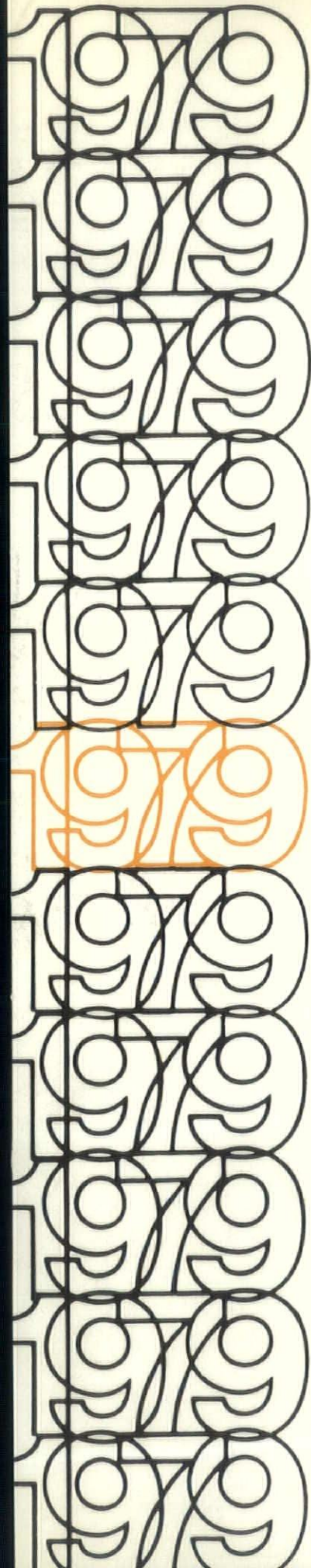
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# IOWA ARCHITECT

March/April 1979



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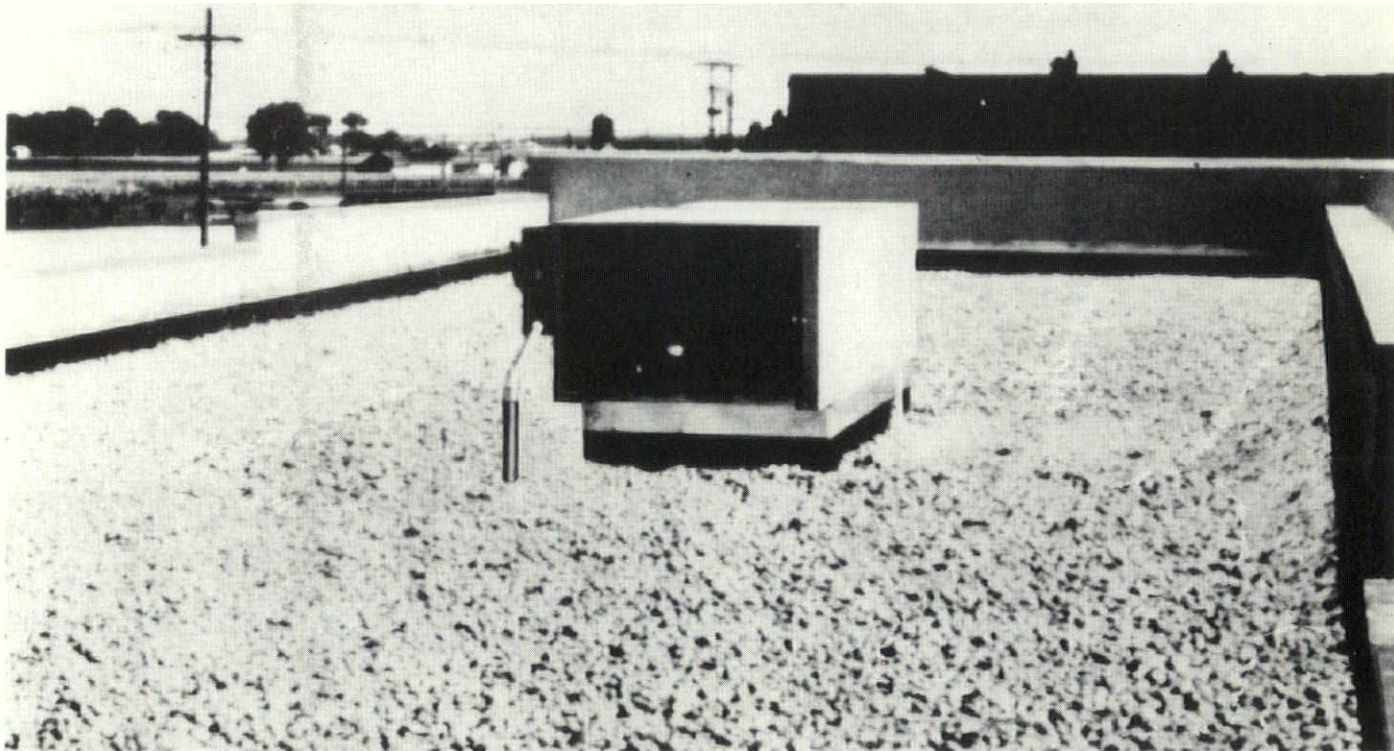
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- COMMERCIAL HARDWOODS
- NEW PRODUCT OFFERINGS
- HOME CARPET'S CONTRACT AND COMMERCIAL FACILITIES



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IOWA ARCHITECT

Volume 26 Number 2  
March/April  
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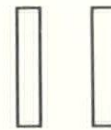
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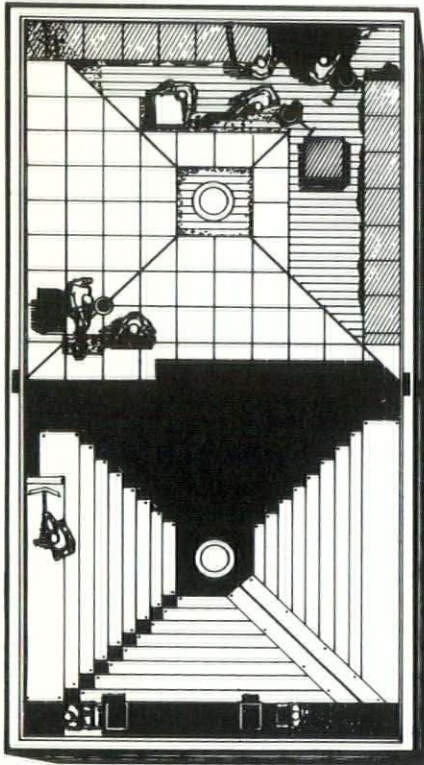
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## to finished installation•



### STAGE I: FILLER AND TAPE-LITE BLOCK INSTALLATION

Because Taper-Lite blocks are fabricated and tapered at the factory job site modification is not necessary.

### STAGE II: RIGID TOP LAYER INSTALLATION

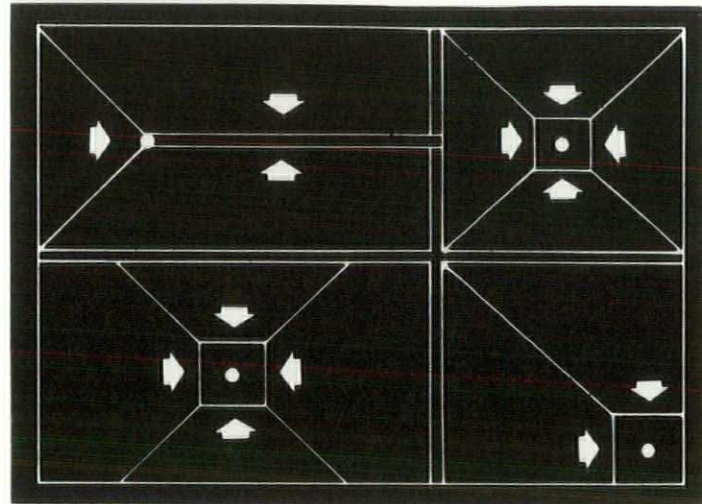
To add dimensional stability, a tightly butted top layer of rigid board is put down, joints staggered with Taper-Lite blocks below.

### STAGE III: FINISHED MEMBRANE ROOFING

Roof membrane is applied directly over rigid insulation top layer.

With the taper-lite system of  
*Tapered Roof Insulation*

## to design applications•



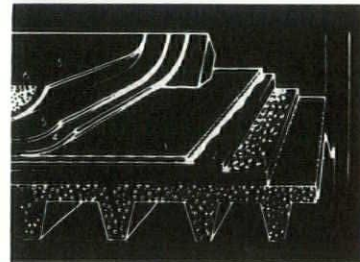
### TAPERING OF DEAD LEVEL DECK (An Example)

With this type of structure, all "valleys" are laid out at 90° to each other as shown, drain plugging and ice build-up are prevented by leaving enough level area around drains to allow a certain amount of heat loss.

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3. Top Layer
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6. Gravel



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**taper-lite**  
SYSTEM  
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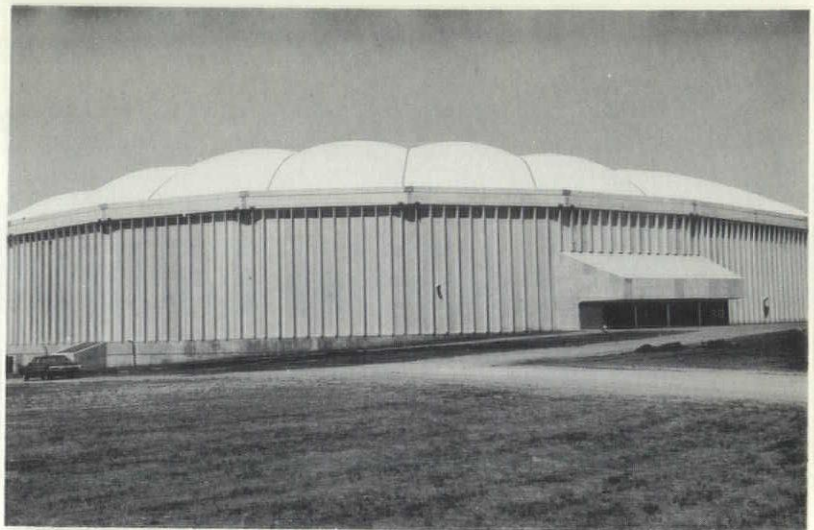


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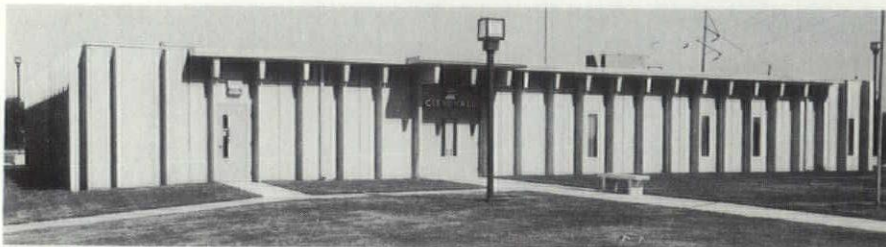
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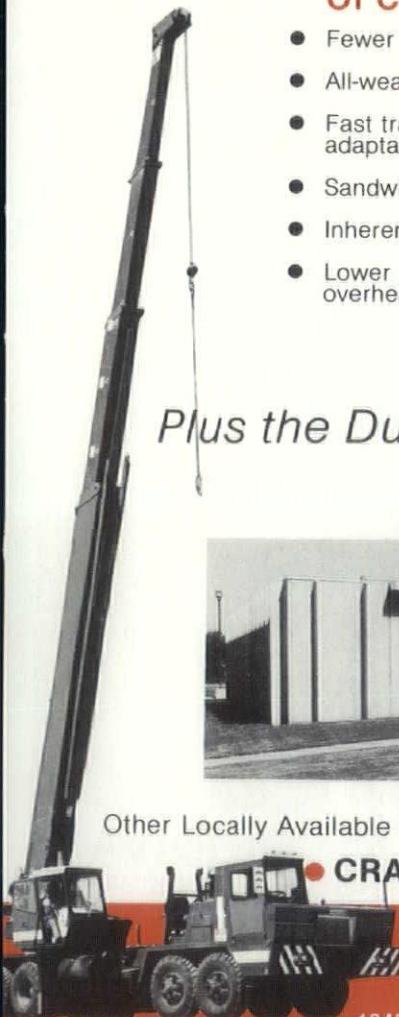
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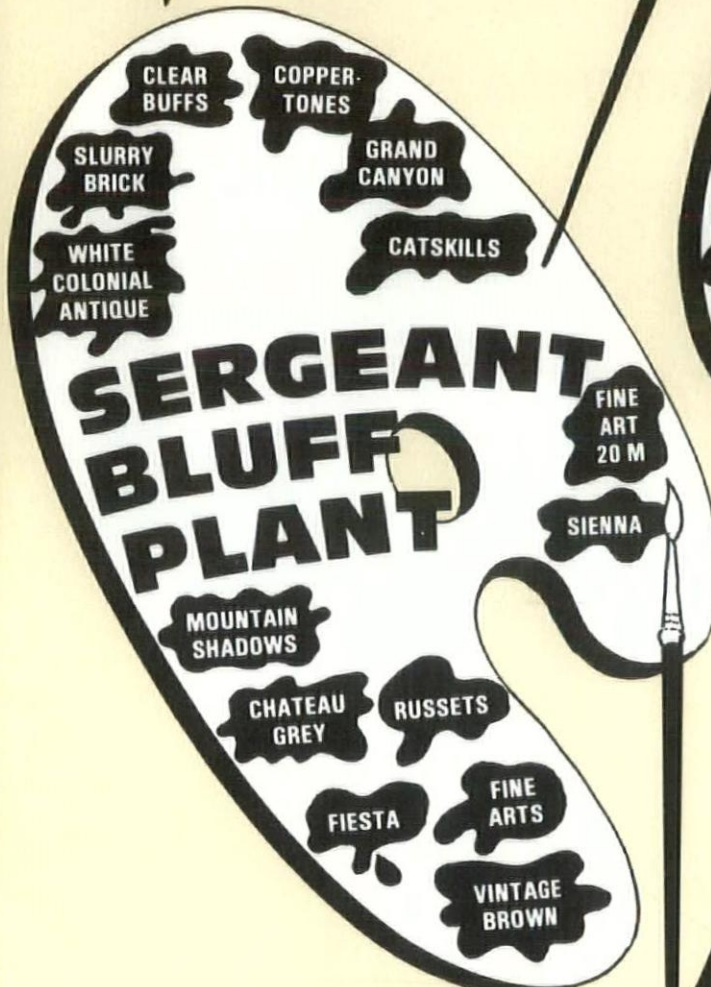
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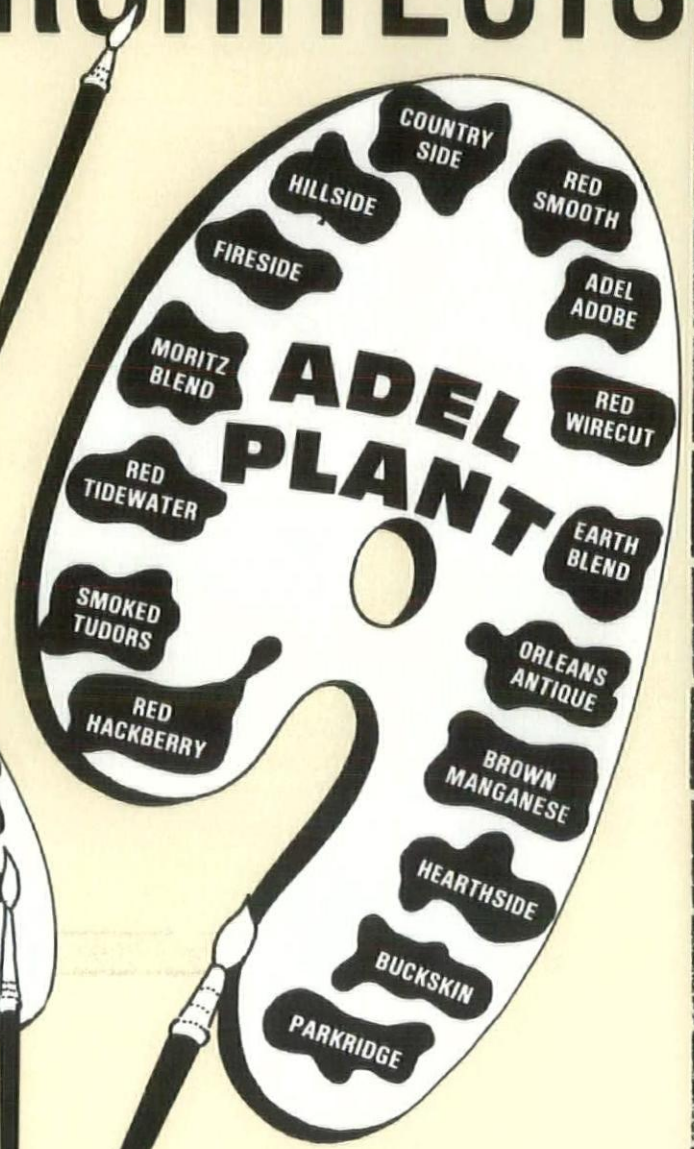




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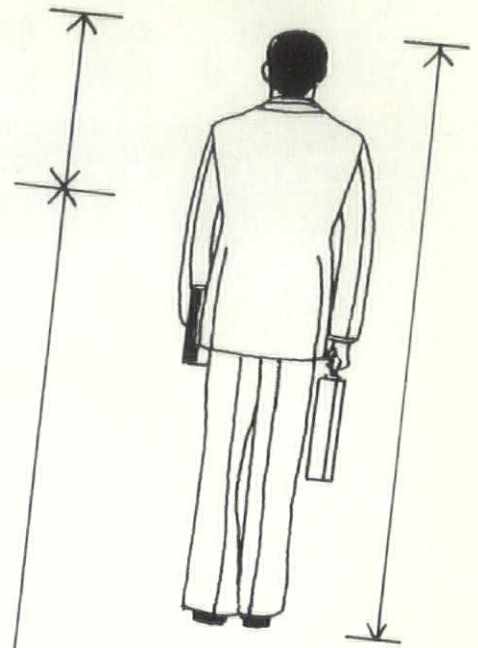
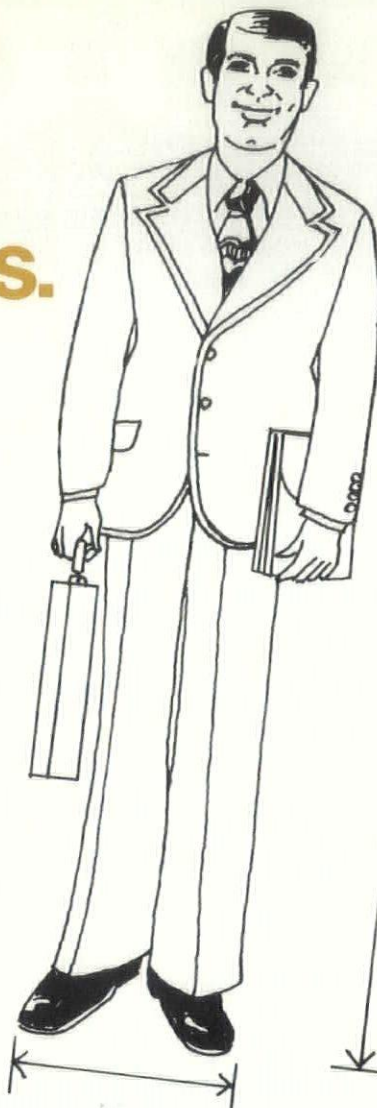
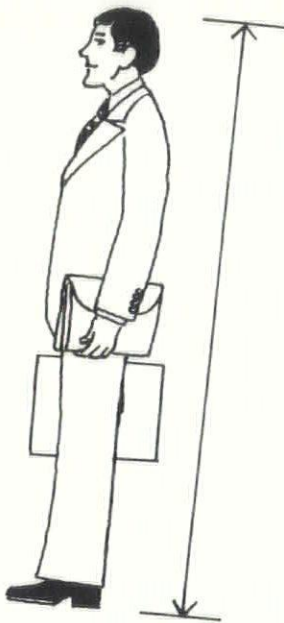


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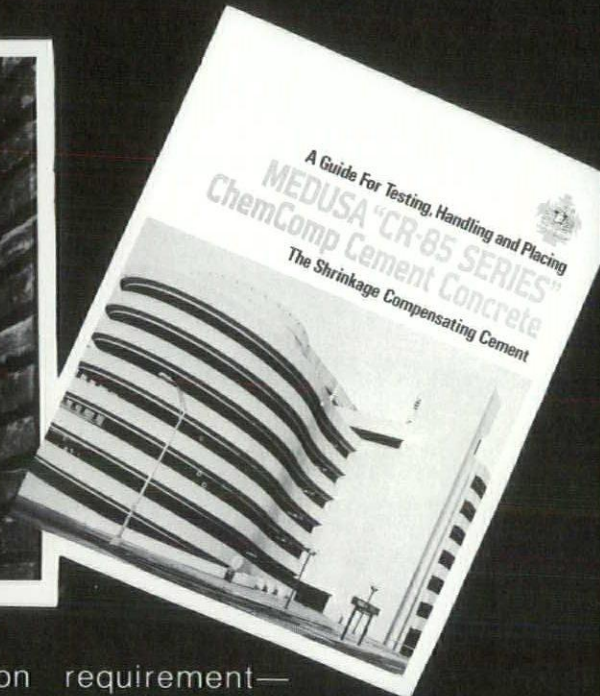
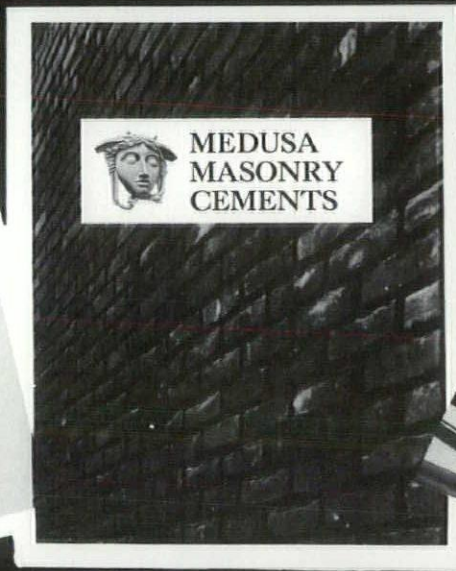
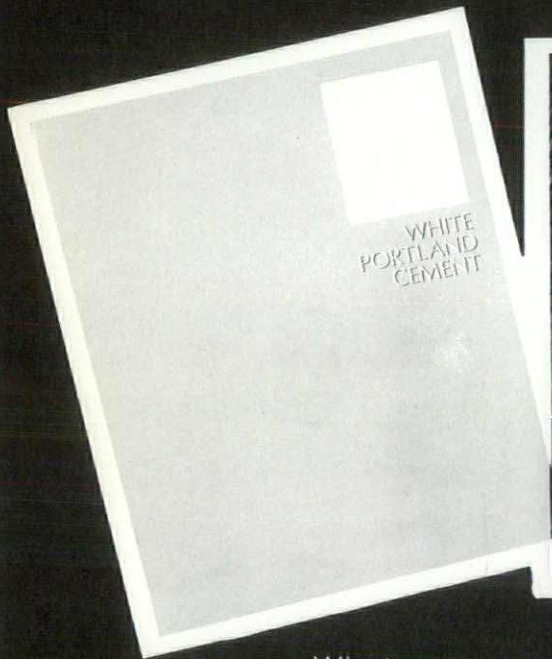
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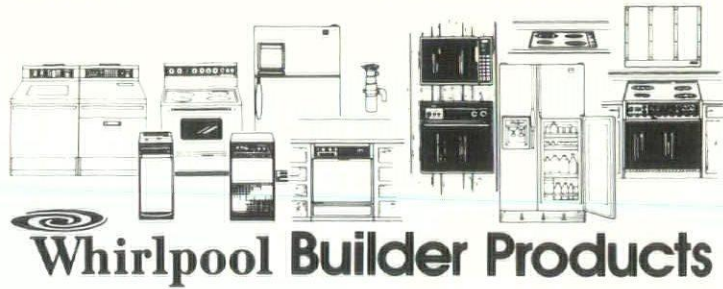
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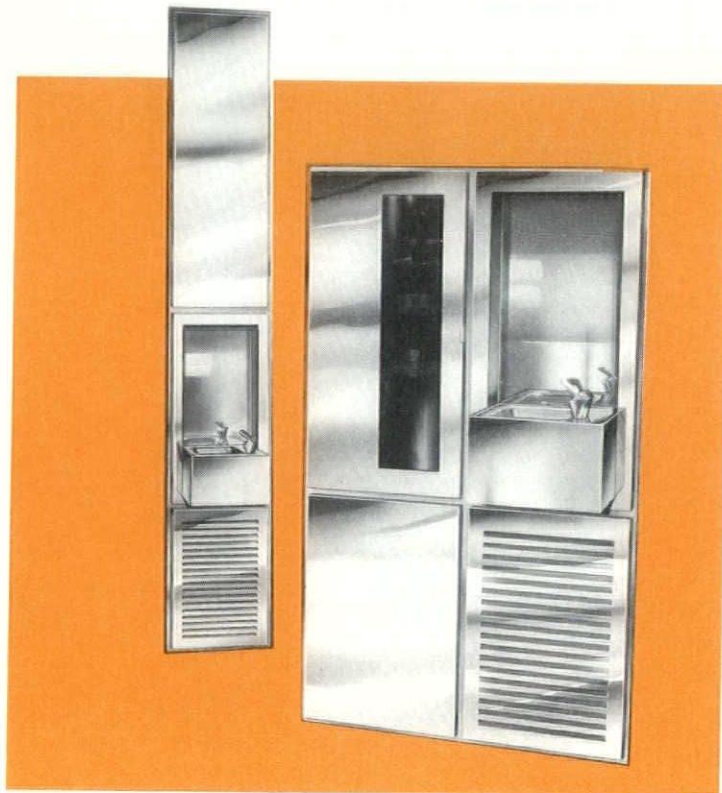
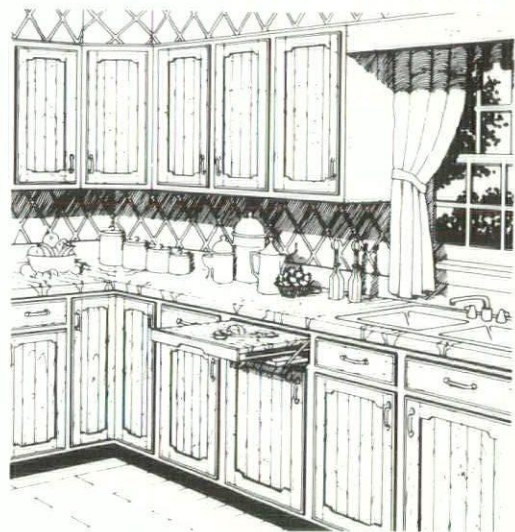
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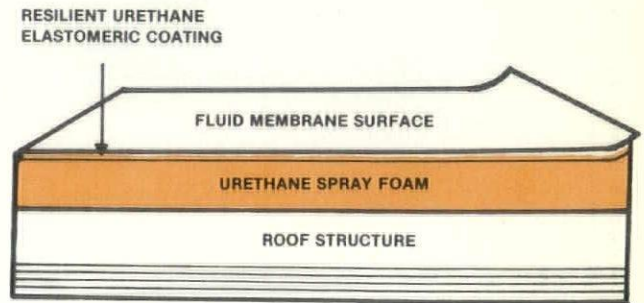
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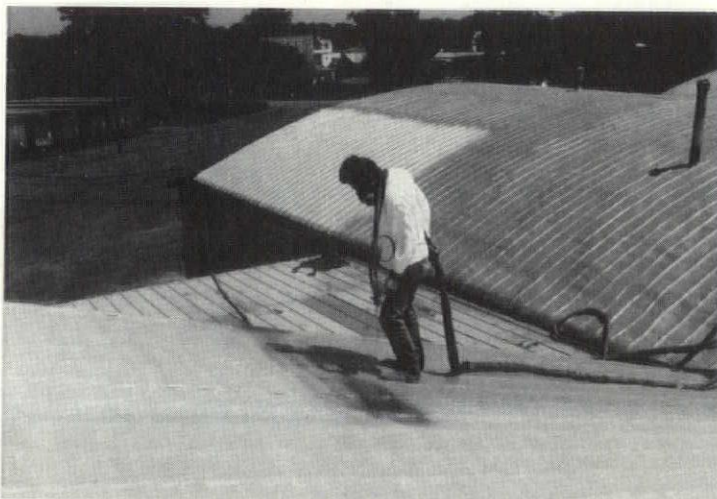
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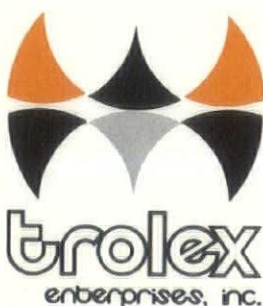
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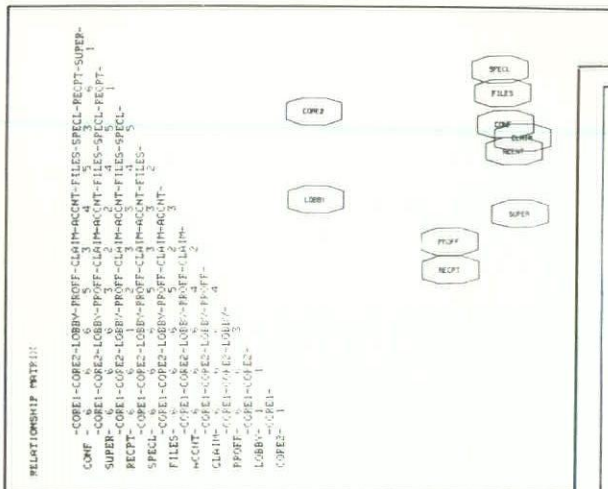
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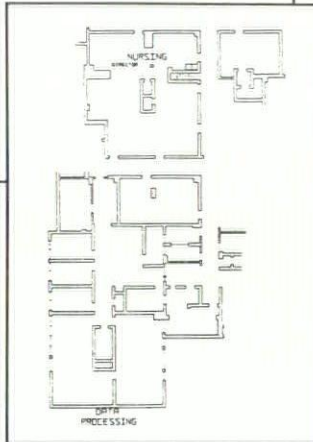
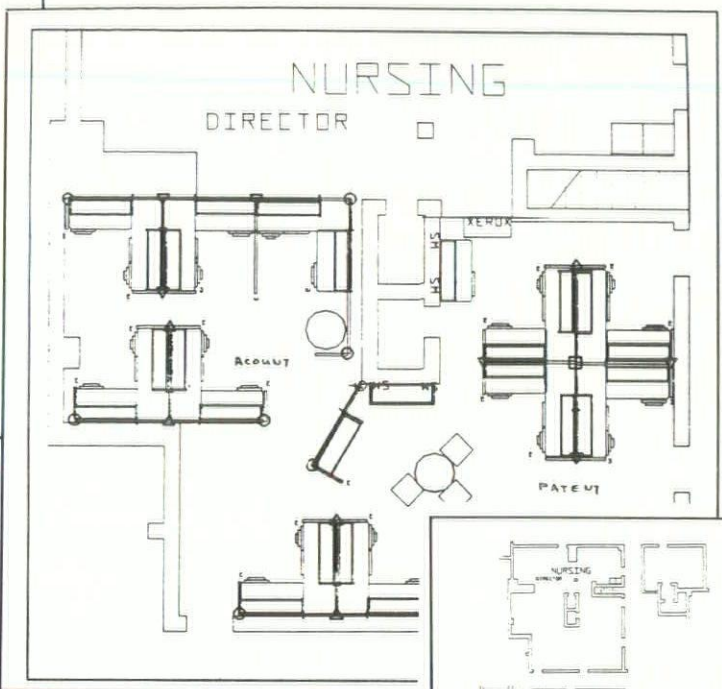
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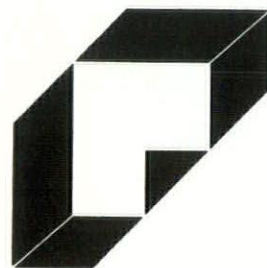
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
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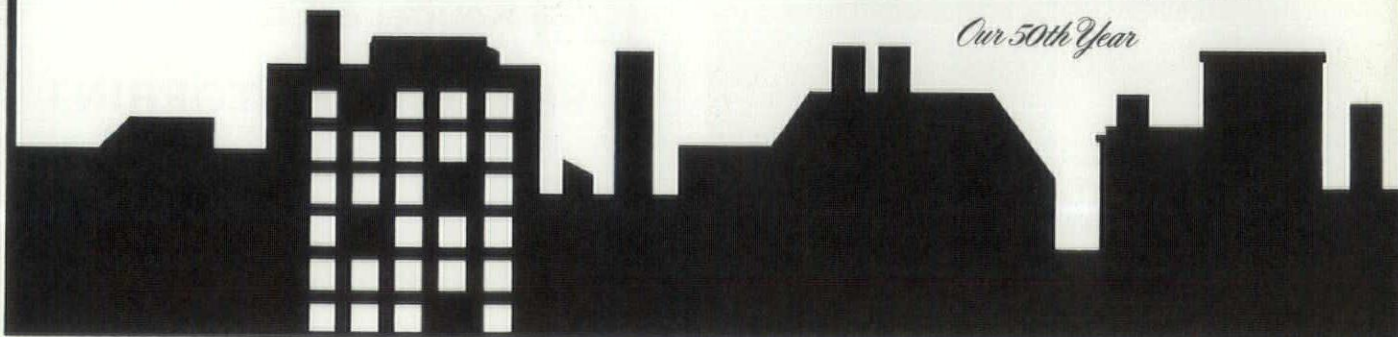
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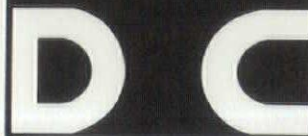
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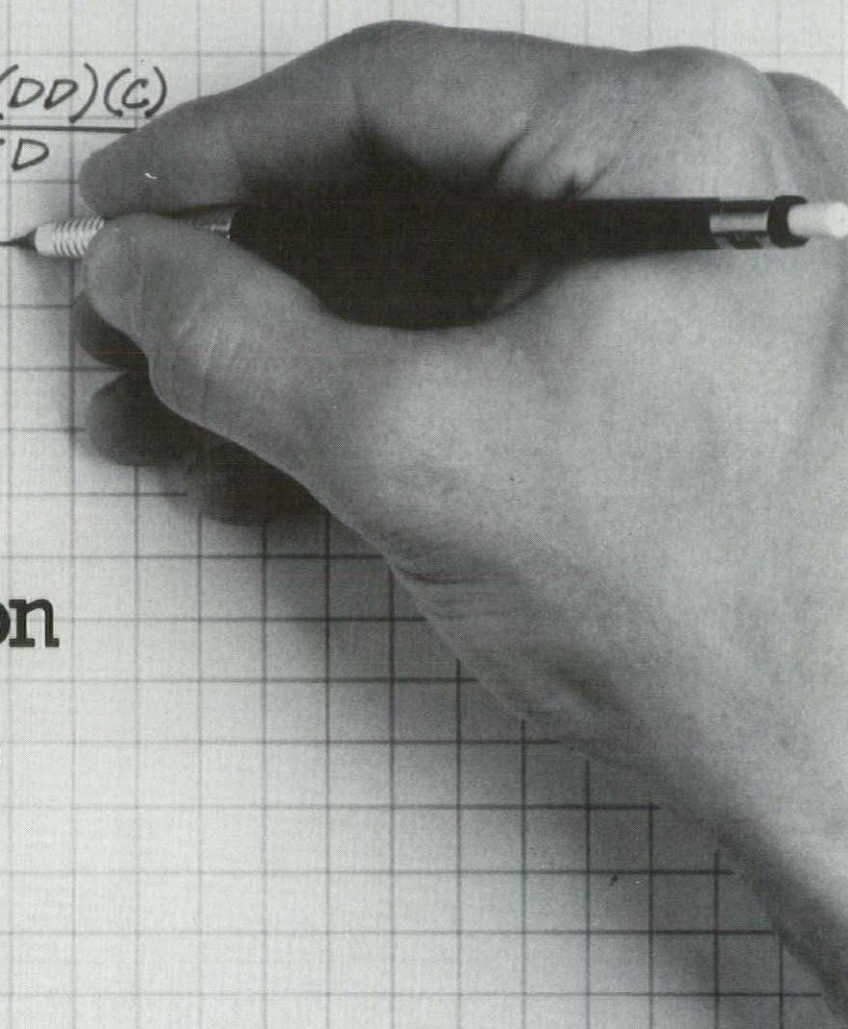


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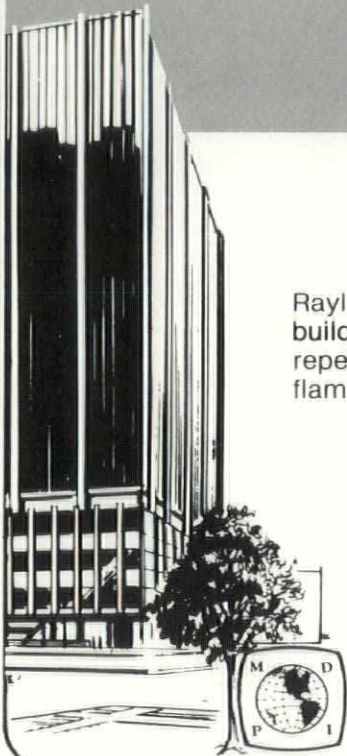
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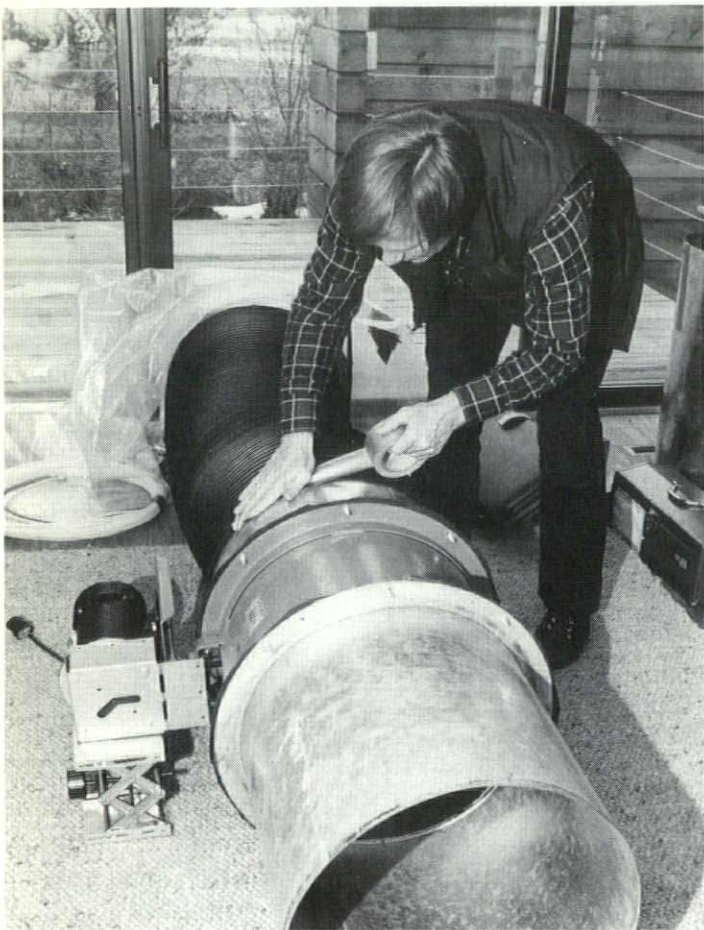
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## Initiate Research Programs in ISU Energy House

Researchers are now beginning to collect data from Iowa State University's Energy Research House.

The house, open for inspection by visiting researchers and the general public since last summer, was put in final readiness for research this fall. Research studies will evaluate the effectiveness of various energy systems in the midwestern climate.

According to Richard Szydlowski, ISU graduate student researcher, current data being recorded involves wall sections. The house was constructed with four test wall sections varying in stud size and insulation treatment. The walls are also equipped with monitoring devices to study the exchange of heat and moisture between the inside and outside.



Researcher David Grimsrud prepares a large air-intake fan to record air leakage data in the Energy Research House at Iowa State University in Ames.

"We are now doing the wall section tests," Szydlowski said, "monitoring the temperature and relative humidity through the walls. There is much controversy as to which type of insulation is better and what type of wall construction is better. We hope to be able to make some determinations along that line."

Szydlowski also points out that "There is also the controversy of whether foam insulation outside and inside will build up a vapor barrier and trap moisture. We are trying to see if the humidity will get up to 100 per cent. If it does, it could reduce the R value of the insulation by getting it wet, or it could rot the structure."

Other data presently being collected involves the earthen berm (dirt fill covering half of the north and west walls) outside the house.

"We are monitoring the transfer of temperature and humidity through the bermed wall," Szydlowski said, "while also measuring the temperature of the soil around the house to see how much heat is being lost from the house through the bermed walls."

The other research modes of the house are still not active but, Szydlowski explains, ISU will begin collecting data on the other modes within three months. Researchers are working out the bugs, calibrating the instrumentation, and will be looking at temperature differentials as low as one degree Fahrenheit. Thus instrumentation has to be accurate.

In addition to the ISU studies, experiments are also being conducted by the Honeywell Energy Resources Center and its Lawrence Berkeley Laboratory (LBL).

The Honeywell experiments are designed to "Measure the air infiltration rate of the house — the rate at which air leaks in and out of the structure," according to Honeywell engineer James Janssen.

"I get about three-tenths of an air change an hour, which is quite a tight house," he said. "You'd expect the average conventional house to have about twice the air changes per hour as we're getting here."

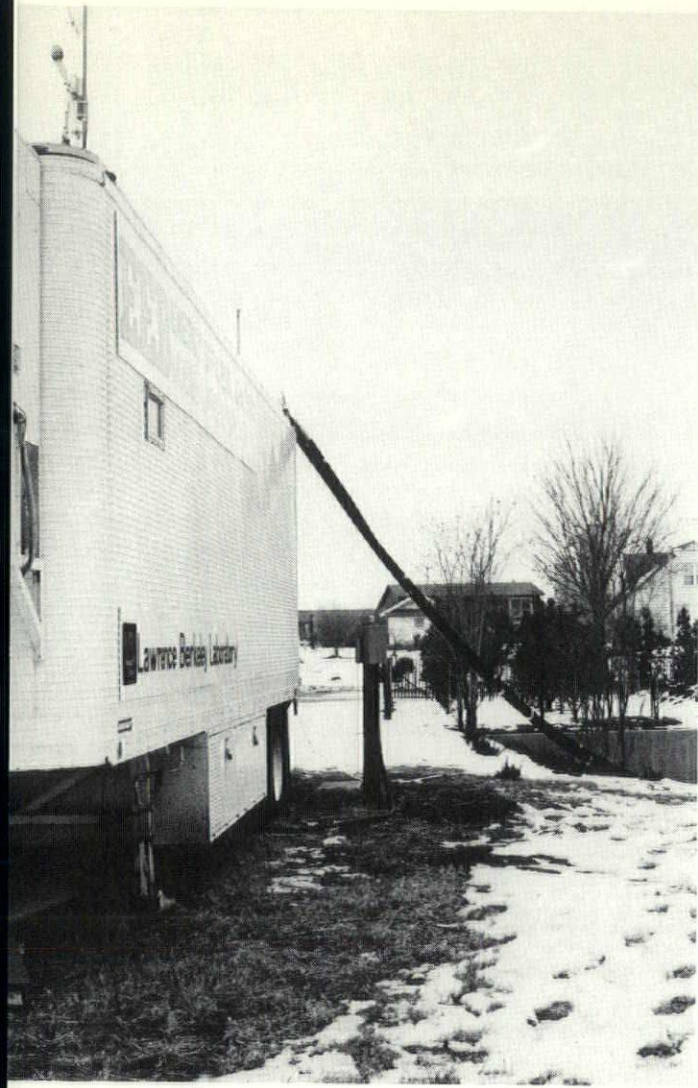
Air infiltration studies are also underway. In addition to using a tracer gas, researchers attach a large capacity fan to a door opening and force air into the structure to pressurize it. Once pressurized, the amount of air that must be pumped into the house to maintain the pressure can be measured and the air leakage calculated.

"The house is very well built and is so tight, that it's air leakage meets the strict Swedish standard, which is no more than three volume changes of air per hour under pressure," according to David Grimsrud, LBL staff scientist. "A conventional house would have from 20 to 30 changes per hour under pressure."

James Pepper, air quality field engineer, says: "We're concerned with the effects of people occupying the home, and we're taking note of when personnel are in the home and when they are not. Unfortunately, there are no sources of gas other than carbon dioxide from the people breathing. We're also testing for several other gases such as carbon dioxide and monoxide, sulfuric dioxide, ozone and nitrogen oxide.

"We're sampling the dust particles for size and con-





A mobile trailer houses equipment being used by the Lawrence Berkeley Laboratory to determine and examine gasses, if any, in the Energy Research House at Iowa State University. Indoor air quality research is just one of many studies that will be made by university scientists, as well as those with private firms and corporations in the Energy Research House.

contaminants that might be present, and testing for aldehyde-formaldehyde outgassing as well as for radon daughters. We even have a device for studying cigarette smoke but we don't get much smoke data as we only have one person who smokes occasionally."

The air infiltration and air quality studies are designed to determine types of extra ventilation, if any, that should be installed in modern energy efficient houses. Since the houses are tight, there are fewer air changes per hour than in a conventional house and thus less outside air to dilute a buildup of gasses and odors.

Additional research will evaluate how energy exchange with the environment is influenced by architectural design, construction techniques, interior design, landscaping and mechanical systems.

The Energy Research House is not solely a university program as various private firms have contributed material, expertise, manpower and financial assistance.

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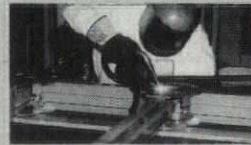
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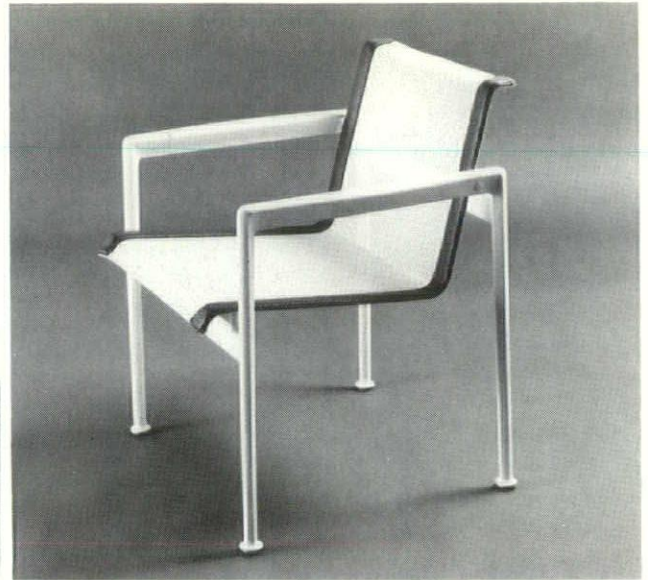
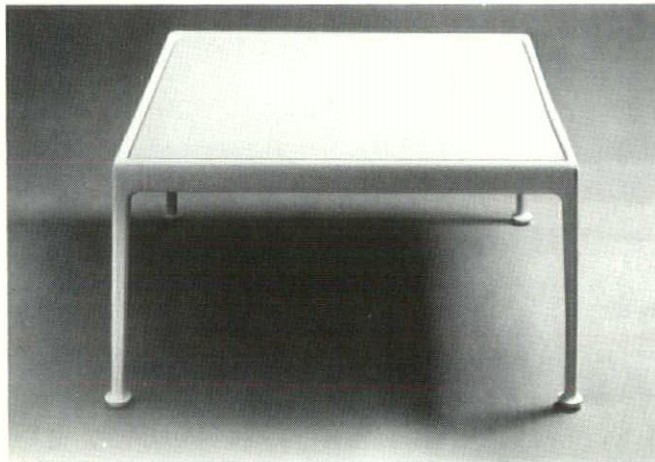
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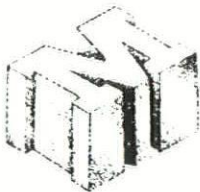
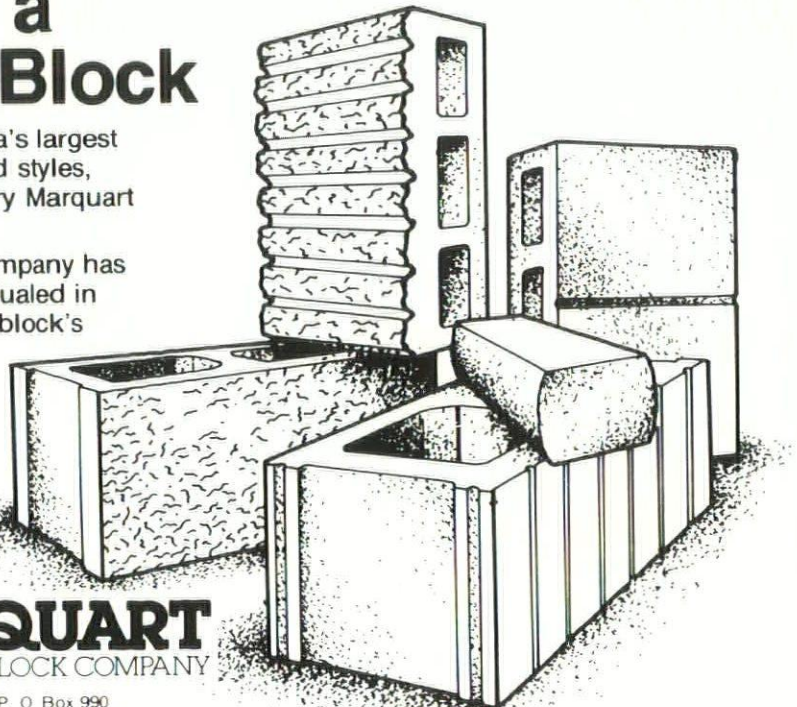
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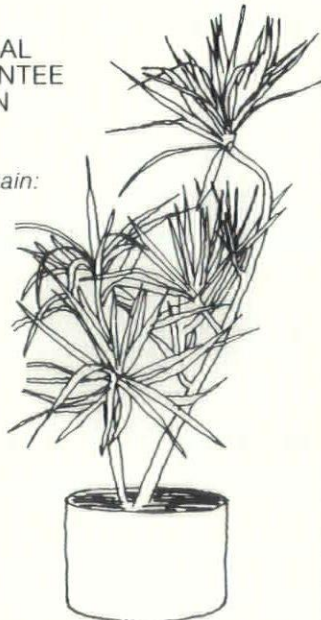
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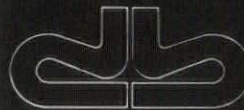
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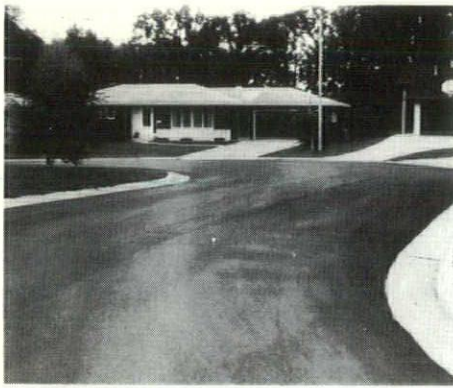
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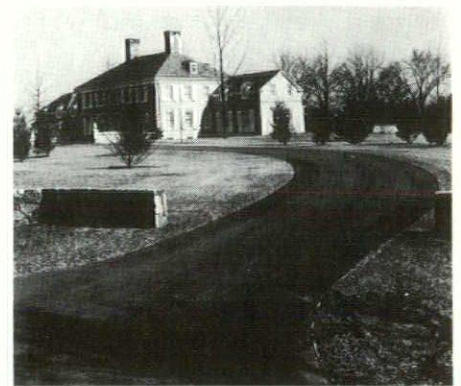
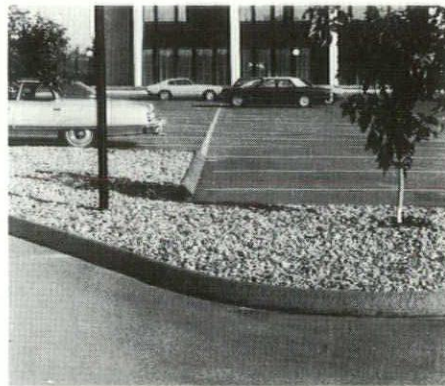
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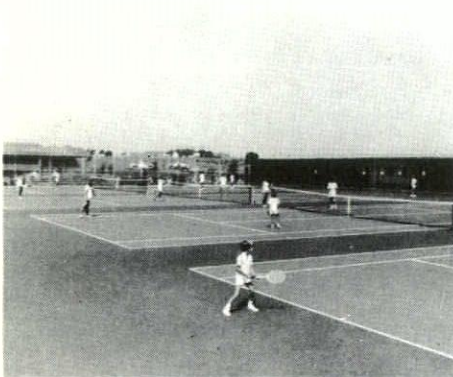
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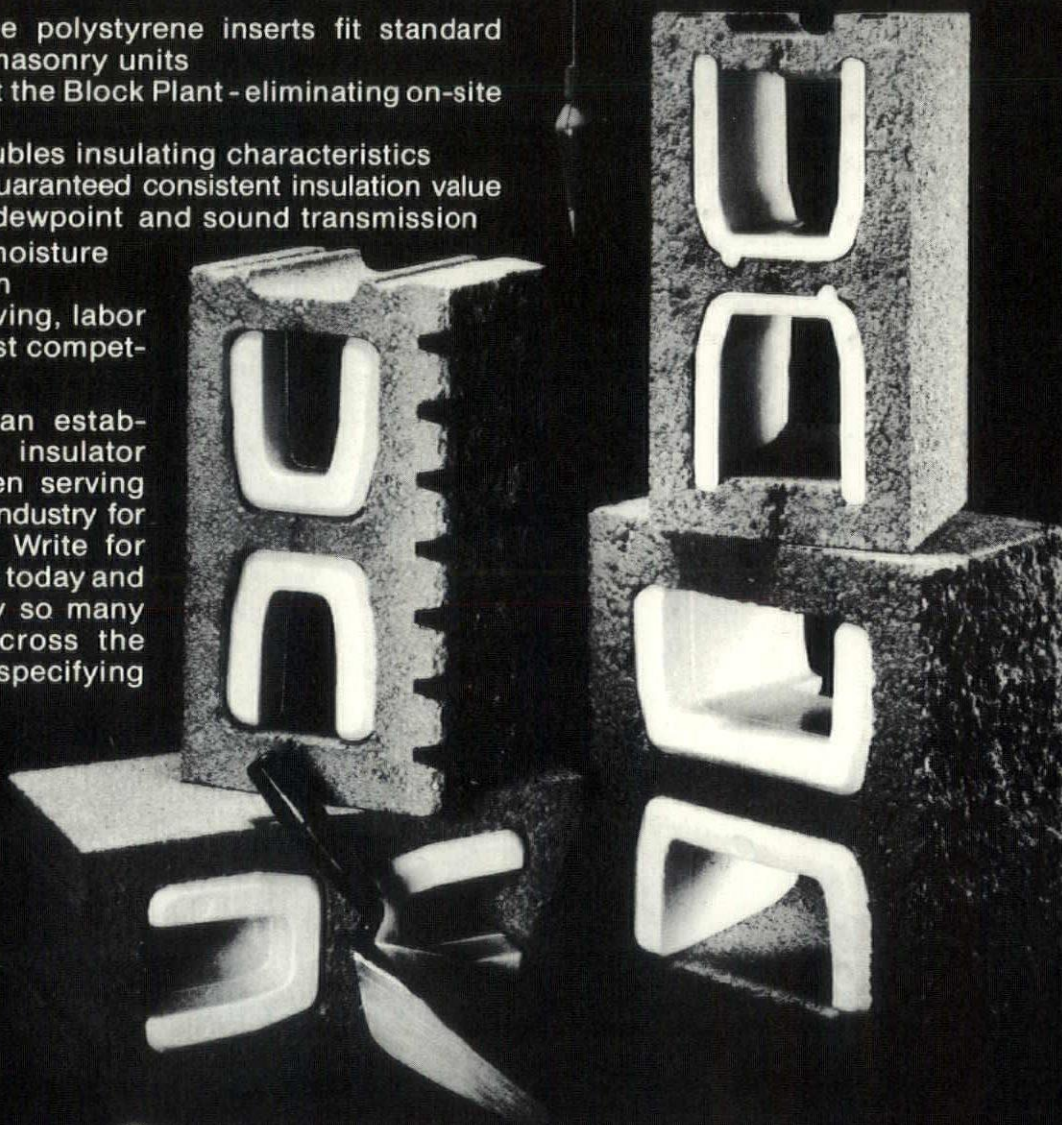
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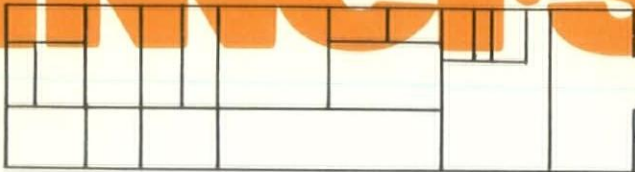
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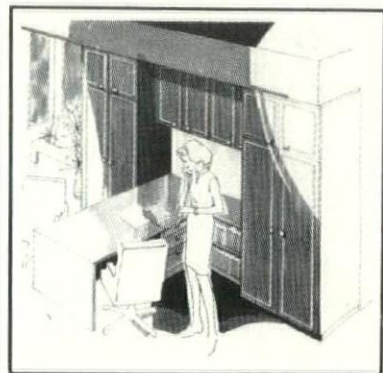
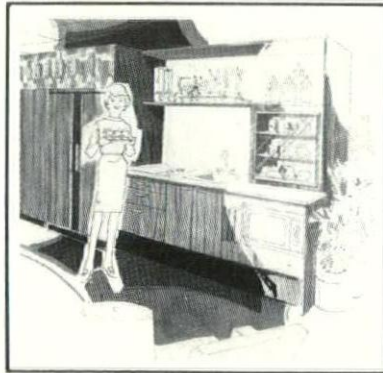
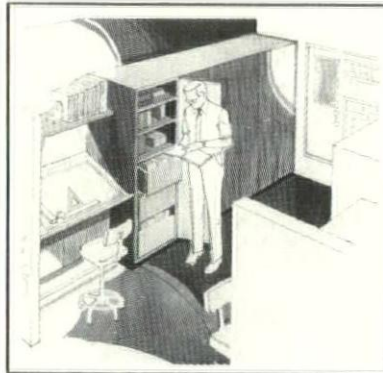


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