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## Home Builders Should Use Some Type of Insulation

Keep in heat during winter, keep out heat during summer. That's the purpose of modern insulation in the modern home.

Insulation of floors, walls, ceiling and roof has become a "must" for today's home construction. No practical-minded builder will be without it.

Expense is actually nominal when one considers savings in reduced fuel bills, comfort, and well-being to the family.

Several types of insulating materials are on the market. Blanket type is popular and easy for the novice to install. Prepared in a blanket several inches thick and wide enough to stretch from stud to stud or from ceiling joist to joist, it takes only hammer and nails to install.

**Several Types**

Then there are several types of "blown" insulation. Most of it is rock wool and is flaked for easier handling. A definite advantage to the blown type of insulating is that it can be installed in an older house, by prying loose a wall board and blowing the insulation in. Professional installation is usually required as pressure is needed to lodge the rock-wool particles in "between the studs and joists."

Aluminum foyle, which creates a vapor seal, is being used extensively by some builders.

Utility is the keynote to various new types of insulating board. Not only does the board insulate, it also adds to the structural strength of the building.

These are the types of insulation board:

**Insulating Board Sheathing:** This product performs four services. It builds, braces, insulates and stops wind infiltration. It is used as a well sheathing in frame construction with various types of exterior finish.

It's waterproofed with asphalt, and goes well as sheathing for brick veneer, siding shingles or stucco; also as roof sheathing on pitched roofs under most any kind of roofing.

**Insulated Building Board:** These are the pre-decorated insulating

sheets which can be applied directly to framing for interior walls and ceilings. Supplied in a variety of light colors, they can also be painted or wallpapered.

A valuable point to be considered in using building boards is that the material is rather effective in quieting sound.

**Tileboard Panel:** Another of the decorative types of insulation. Varying from 12 by 12 inches to 16 by 32 inches, the panels are the easiest to handle, and because of a beveled edge, create a very decorative appearance.

The panels can be placed in line or alternated for the desired finish pattern and absorb considerable noise. They, like the boards, can be painted or left in their pastel shades. Most come equipped with clamps and tacks and are simple to install.

**Insulated Plank:** This one is also decorative and suited to interior finish on walls or ceilings. Varying in width from eight to 16 inches, the planks can be bought in lengths from 8 to 12 feet, and can be trimmed easily.

**Insulating Lath:** This type of insulation serves as base for plaster on walls, partitions and ceilings. It is produced in pieces 18 inches wide and four feet long, and produces an excellent foundation for plaster.

Its makers claim the combination of insulated building lath and plaster is several hundred times the strength of wooden lath, wire and plaster. The lath also deadens sound and is particularly effective in areas with heavy traffic and street noises.

Considering these various types of insulation, it behooves the prospective builder to consult an architect. There is no doubt as to the value of insulation, and there's a type of insulation for every house.

## Planners Need Expert Help

What is the difference between an architect and a designer? Many persons planning their first home do not know the difference, or understand what to expect from an architect or designer.

An architect in Oregon is the legal term for a man who has had five years' experience, five years of school, and has passed a very complete series of examinations covering design, architectural history, structural design and other subjects.

The architect is capable of turning out a very complete set of plans, specifications and of doing a good job of supervision on construction. He usually charges on a percentage basis of the final cost of construction.

Other persons also design houses. They are known as registrars, and are not licensed as architects are. Their backgrounds in design vary from none to nearly as much as a licensed architect. Their services usually end with the drawing of the plan and sometimes of the specifications. They charge a flat fee for work by the hour.

**Larger Homes**

For persons building larger homes, the services of an architect are essential. A person planning a small home can frequently find a designer who will turn out a plan at a reasonable figure.

Plans vary in quality. Many of those available through plan services have just the bare essentials, and persons buying these sometimes find they are charged more by the contractor as it takes more of his time to figure out the essential details. Some designer houses have very complete plans with which contractors are glad to work.

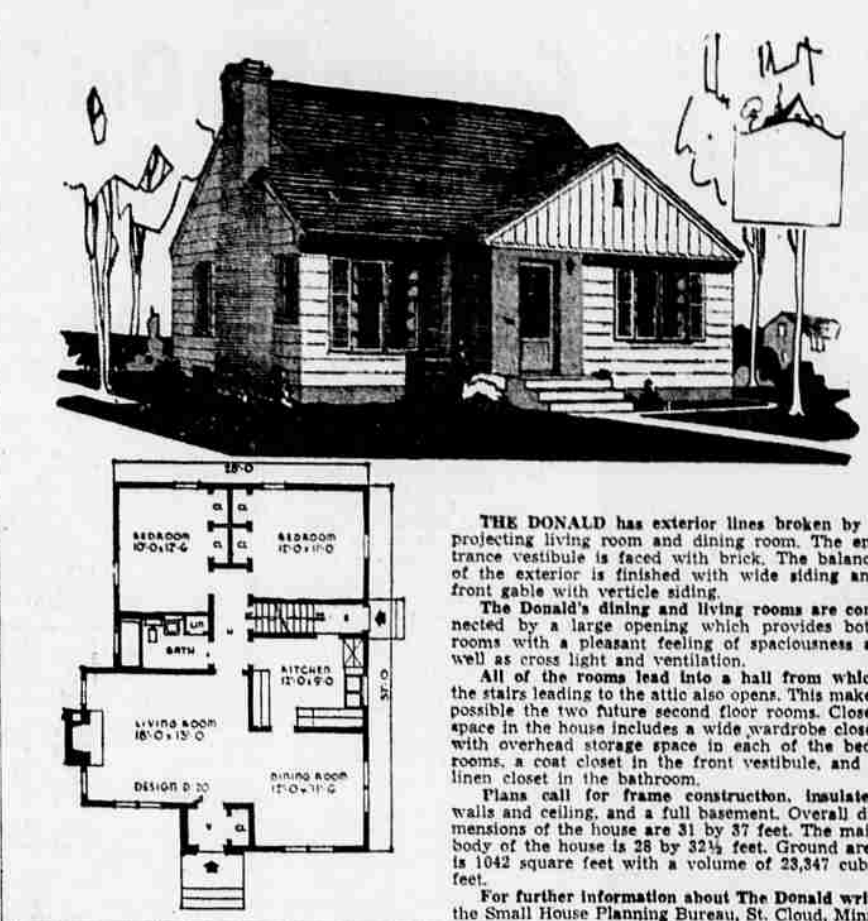
Architect-designed houses are usually the best in detail and specified fittings. Also the "plan book" plans are not suited to everybody. Changes are frequently made, and sometimes not until something has already been done on the structure.

In a good designer or architect, designed house those details are taken care of by the artist at the time of drawing the plans.

**HEAVY DUTY APRON**

A sturdy general utility apron has been designed to give added protection for laundry work, canning and other chores where a water-resistant apron is necessary. Made of plastic, the apron is strong and long-wearing, resistant to mildew, fruit stains, acids and alcohol.

All seams are electronically heat-sealed. Many used will be found for the handy pouch, which is particularly convenient for carrying clothes pins.



**THE DONALD** has exterior lines broken by a projecting living room and dining room. The entrance vestibule is faced with brick. The balance of the exterior is finished with wide siding and front gable with verticle siding.

The Donald's dining and living rooms are connected by a large opening which provides both rooms with a pleasant feeling of spaciousness as well as cross light and ventilation.

All of the rooms lead into a hall from which the stairs leading to the attic also opens. This makes possible the two future second floor rooms. Closet space in the house includes a wide wardrobe closet with overhead storage space in each of the bedrooms, a coat closet in the front vestibule, and a linen closet in the bathroom.

Plans call for frame construction, insulated walls and ceiling, and a full basement. Overall dimensions of the house are 31 by 37 feet. The main body of the house is 28 by 32 1/2 feet. Ground area is 1042 square feet with a volume of 23,347 cubic feet.

For further information about The Donald write the Small House Planning Bureau, St. Cloud, Minn.

## Delicious Peas Will Grow In Gardens All Winter

Peas definitely are a cool weather crop and will tolerate amazingly low temperatures. This vegetable is not over-sensitive to soil conditions, growing equally well under a wide range of conditions. The planting depth varies with the time of planting and also the texture of the soil.

During the cooler part of the year and on heavy soil the seed should be set no deeper than one-half inch. In warmer weather and in light soils the seed may be



**Used Frames Make Tables**

Perhaps you have an old picture or mirror frame that is just taking up waste space in the attic or basement. With a little work, a little money (or both), this frame can be made into an attractive coffee table. Round or oval frames will do just as well as square ones.

To begin with, if frames are very ornate, be sure they are not constructed partly of plaster. This will chip badly. The frames should be of all-wood construction.

Take out the picture or mirror, and sand the frame. If you are clever, you may then insert a piece of masonite in the center, fitting it tightly against the back of the frame. A piece of plywood cut to fit and placed over the masonite gives additional strength.

Home carpenters will be able to put on legs themselves, but others will find it wise to patronize one of the local craft shops where the work can be done at not too great an expense.

After the carpentry work is done, the table may be painted any color. A flat or satin finish looks best. After sanding the table well, apply a coat of filler.

On top of this add two coats of a flat color (black is very striking). Then add two coats of varnish, and finish off with one coat of satin-finish varnish.

Persons who prefer a glossy finish may use a regular enamel and finish off with a couple of coats of heat and stain resistant varnish.

planted as deep as three inches for best results. The deeper planting in lighter soils insures that the plant roots will be closer to their water supply.

It is advisable to plant the seed in single rows and this is especially true if the vines are to be trellised. Space the rows thirty inches apart as closer planting may prove disastrous. Crowding peas or any other crop is not exactly good planting technique. The seed may be started in furrows that are fairly wide. This will help prevent crowding.

If the soil is thoroughly irrigated prior to planting there will be sufficient moisture in the soil to force the seedlings above the surface. Sprinkling the land after planting may cause a crust to form on the surface. This is known as baking of the soil. The seedlings may find it impossible to push through such a hard strata. If possible hold off watering until the young plants are two inches high. Irrigation is the best way of watering plants. They are subject to a fungus disease if the foliage remains wet at night.

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**Glowing Paint Adds Safety**

"You can get rid of those hazards in the dark—the stairway that turns abruptly or is dangerously steep, the place where the floor level changes unexpectedly," an article in "The Perfect Home" points out.

The answer to the problem is phosphorescent paint, the safety paint that glows in the dark, the article suggests. This paint shows up just as watch or clock faces that are painted with radioactive materials glow in the dark.

However, the new luminescents are unrelated to the radioactive materials chemically and derive their energy from outside sources. If all points of hazard are thus illuminated, the danger is lessened. The phosphorescent pigments can be mixed to form inks or paints, or can be used to impregnate papers or plastics. Before long there may be illuminated plastic doorknobs, exit signs, medicine cabinets and light switches. The article suggests that on

dangerous stairways a band of the paint be used on each step, on the hand rail, to outline protruding obstructions, and on the light switch.

**HAND SAVERS**

Protecting hands during household chores is accomplished thru the use of new, long-wearing all-purpose mitts made from plastic. The light-weight, flexible mitts fit either hand with equal ease and are unaffected by grease, acids, or stains. The transparent protectors give freedom of action, and are easily put on and removed.

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