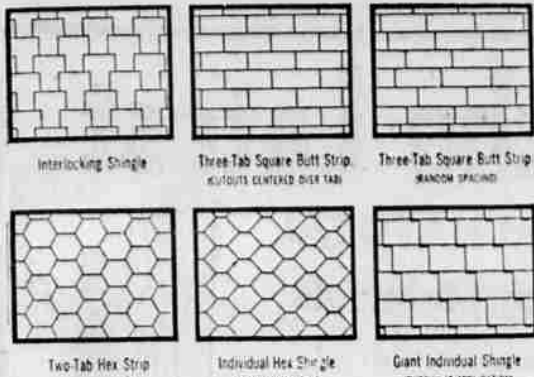


Good Tools Needed for Good Work



SOME PATTERNS you can get with standard asphalt shingles.

Color, Texture, Pattern Of Shingles Set Style

Roofs are given more serious thought by homeowners and home builders today than ever before. A roof always has had to keep a house dry and remain tight as long as possible. Nowadays color, texture and pattern have entered the picture.

Architects and decorators have come to realize that a roof, being the largest single area on a house, can dictate the exterior colors for the house. Furthermore this matter of color has a functional value in insulation. Especially since air conditioning has become so popular, the ability of summer has become important.

Designers say that light, bright colors on a roof make a house

seem taller than it is. So they recommend these colors for one-story houses.

Engineers say that a white roof is the coolest in summer. But they also have found that a black roof can be the warmest in winter.

Re-roofing gives any owner of a gabled house a chance to change and improve the color styling of his whole house. Asphalt shingles, which are now the most popular roofing material for houses, can be had in such a wide range of colors that the homeowner can satisfy any color preference.

Granules Provide Color

The ceramic granules which coat this type of roofing give both color and texture to the shingles. They are firmly imbedded in the base material so that even if some may wear off, the color and texture remains for the life of the roof.

So the five points to consider, if you want to put a new roof on your house, are: (1) Color and texture, (2) Roof pattern, (3) Weight of the roofing material, (4) Shingling over the old roof covering, and (5) Application techniques.

The relation of the shingles, one to the other, form a design on a roof. Many different designs are possible, varying with the size and shape of the shingles as well as in the manner in which they are laid. By finding out what shapes are available and also the different ways the shingles can be laid, the homeowner can pick a design that best suits his house.

Variation in Weight

The homeowner has a choice of shingle weight. Asphalt shingles are made from 135 pounds to 350 pounds per square (the amount needed to cover 100 square feet). The heavier roof is the more durable. The higher expense is justified in the longer life of the roof.

Old roofing material should not be ripped off before new roofing is applied if the roof deck is sound. This means that the deck must do the work. Also the deck must hold the weight of the new roofing plus the weight of the roofers who provide firm anchorage for the nails that will fasten the new roof through the old.

Much of the effectiveness of a roof depends on the workmen who put it on. A homeowner's best insurance is to deal with roofing contractors who have a good reputation in the community. In addition to this, the prudent homeowner will read the directions for application that come with each bundle of shingles. He will better understand the roofing job he is paying for.

A few good tools can save you a lot of money and time in home care and repair. It is better to own a minimum number of quality tools than a miscellaneous collection of cheap toys or gadgets. Poor tools can spoil a job, cause injuries and discourage any man from making the simplest repairs around a house.

Six basic tools are considered a must for the average household. A claw hammer, a crosscut saw, a screwdriver or two, a monkey wrench, an accurate rule and a pair of pliers.

Shuffleboard In Driveway

A level concrete driveway can do double duty by serving as a shuffleboard court for the outdoor season. Some painted lines and numbers to mark scoring areas and a few items of equipment—hard fiber discs and aluminum cues—are all that it takes.

To build an outdoor shuffleboard court on a specially constructed concrete slab may cost as much as \$250. A second-best is to use a flat section of a driveway.

A regulation size court will measure about 52 feet in length, but if space is lacking the court can be scaled down. Special home-size equipment includes discs and cues about two-thirds regulation size for use on a shuffleboard court 30 to 35 feet in length.

ON THE BUTTON

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possible—close to a wall, or in a corner.

Squares and Levels

An adjustable try square with a miter edge solves many problems. These usually include spirit levels, horizontal and vertical. A regular carpenter's level also will be needed. These are made with either a wooden body or lightweight aluminum for greater durability.

A keyhole saw or a compass saw with changeable blades will cut curves and holes through floors or walls for pipes and other purposes.

Then you'll need a hacksaw to cut metal and backsaw for careful work, such as mitering. Files become indispensable and a carpenter's square is handy for use as a straightedge and rule as well as truing framing angles.

A hand drill to cut small holes through either wood or metal will soon whet your appetite for power tools, of which the portable electric drill is usually one of the first acquired.

How to Buy Tools

It's a good idea to take a tip from a skilled cabinet maker when you are about to buy tools. You will notice that he will go to a reliable dealer and select a reliable brand of tools. Watch him heft a tool. He will stage a little pantomime trying the tool in all working positions to see if it feels good.

For instance, in buying a hammer, grasp the handle near the end and find out how your wrist feels. A good household hammer can be anything between the 10 and 16 ounce sizes, depending on how it feels in your hand. Usually heavier hammers are used for nailing into hardwood and for driving larger nails.

A good general purpose household saw is a No. 8. This is coarse enough to cut fast and fine enough for rough work. The number of a

jack plane is handy for smoothing longer surfaces, although carpenters use a jointer plane, 22 to 24 inches long, for very long surfaces. However a jack plane does not cut the end grain of lumber as well as a small one-hand block plane, which soon becomes needed in the home workshop.

Then chisels and gouges are needed for such work as cutting mortises for locks and door butts. Gouges are rounded chisels.

A bit brace and a set of various sizes of bits become the next appropriate addition. Almost everybody gets a ratchet brace nowadays. This allows you to bore holes in tight places where complete turns of the brace are im-

Air Conditioning Year Round Needs Tricky Balancing

Balancing has become one of the biggest problems in year-round air conditioning. To keep winter comfort equal with summer comfort which requires a greater circulation of air through the same pipes is an engineering trick almost as delicate as tight-rope walking.

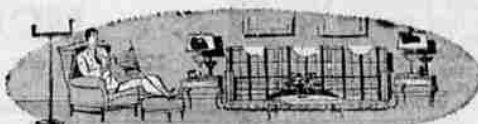
It's comparatively simple to balance a heating system or a cooling system alone. In either case, air ducts and registers can be installed and regulated so there will be no noticeable difference in temperature from room to room.

The problem arises when the two systems are combined with an automatic switch-over from season to season. In winter, north and west sides of a house need more heat. In summer, southern exposures need more cooling. Kitchens, warm in winter, require more cooling in summer.

Such complications are now being ironed out automatically. Sheldon Coleman, Wichita, Kans., air conditioning expert, says a supplementary piece of equipment known as a balancing unit turns the trick.

"When heating is needed," Coleman says, "the furnace and blower supply heat through ducts adjusted for the best heating balance. When cooling is needed, a thermostat automatically switches over from heating to cooling and dehumidifying. The blower then supplies cool air through ducts to rooms that require greater amounts of cooling than of heating."

"At the same time, the balancing unit goes into action, pumping cool air through ducts to hard-to-cool rooms."



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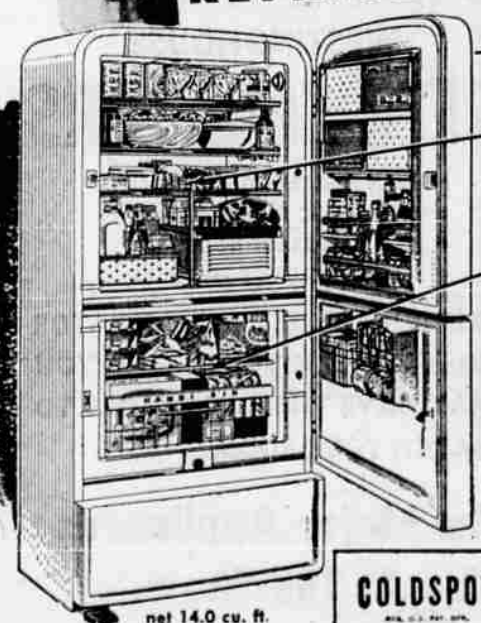


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new means the number of teeth per inch. Crosscut saws can have 8 to 12 points per inch. Rip saws range from 5 to 7. Backsaws for fine work at the workbench have 12 to 16 teeth per inch. These usually run valuable advice for all workers with tools.



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