

YOUR-

How to apply asphalt shingles . . .

Courtesy of Home Hardware

Here are tips and instructions on how to apply asphalt shingles. Take time to read thoroughly. Following these instructions can save time and effort. It can also help you end up with a neater, more satisfactory installation — with far less waste.

1. IMPORTANT FACTS ABOUT APPLYING OR REPAIRING ASPHALT SHINGLES

- Working on a roof can be dangerous. Extreme care should be exercised at all times, and people with serious physical impairments should never attempt the job.
- Always wear high-laced, rubber-soled, boat-type shoes with non-skid treads. Always keep them laced tightly while working on a roof.
- Avoid loose clothing while on a roof.
- Don't start a roofing repair job when you are tired.
- Never go up on a roof during or immediately following a rain storm or when the roof is covered with moisture. Especially avoid working on a roof before early morning dew disappears.
- Be extremely careful when working around TV antennas on a roof. Some hold an electrical charge. Never go near an antenna when the roof is wet.
- Use extra caution when working around overhead power lines.
- Always use a ladder of sufficient strength and height. Be sure the footing of the ladder is secure at all times.
- If the job is a big one, rent or build a scaffold.

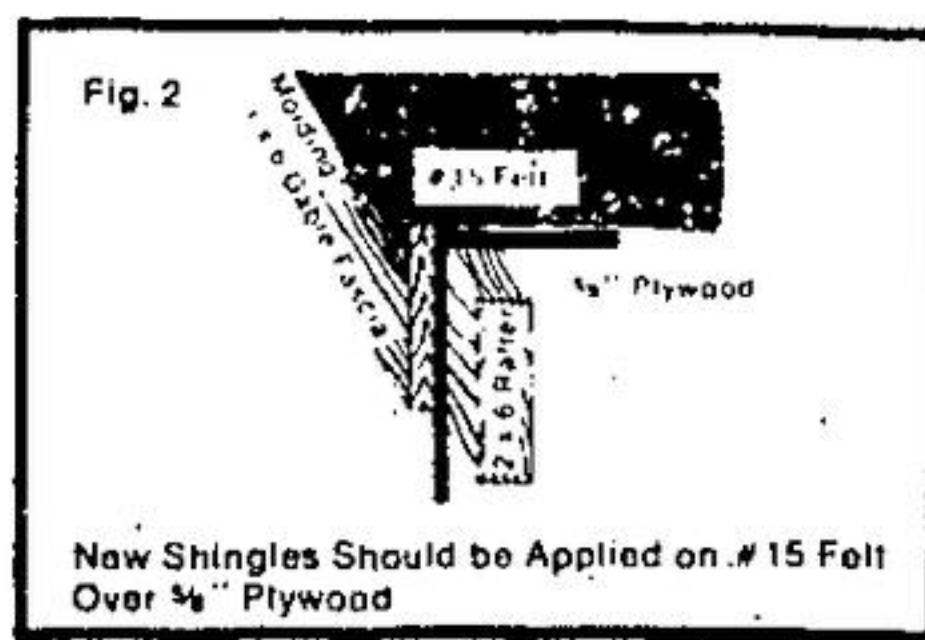
2. REPLACING TORN SHINGLES

Select a day when the temperature is high enough for shingles to be flexible. Use a pry or wrecking bar to pry up nails holding torn shingles. Remove both the nail and shingle when they are torn. (Fig. 1).



Use Pry Bar to Remove Nails and Broken Shingles

- If shingles are in a position where it is extremely difficult to remove the nails or shingles, cut away the torn part of the shingle with a linoleum knife or tin snips.
- Replace with the same weight, color, size and type of shingle as the one torn away.
- If the tin snips become gummed from cutting the shingles, dip it in a can of kerosene occasionally to keep it cutting freely.
- Apply asphalt roofing cement to the back of the shingle. Put it into place and nail down with regular roofing nails.
- Always position the roofing nails in such a way that they will be covered by the shingle above when it is dropped back into place. (Fig. 1).
- Touch up nail heads with asphalt cement to prevent any possibility of leakage.



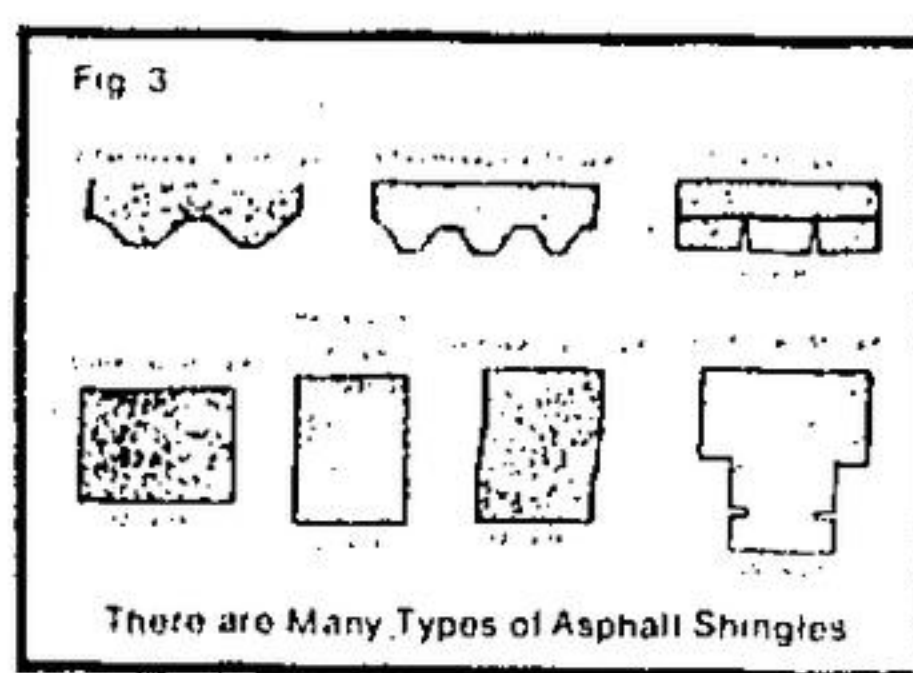
New Shingles Should be Applied on #15 Felt Over 1/2" Plywood

3. APPLYING NEW SHINGLES

- New shingles should generally be applied over #15 felt roofing laid on top of 1/2" plywood. (Fig. 2). The type of sheathing required as a base for shingles will depend on local building codes in the area.
- Each course of #15 felt roofing used as a base should overlap the previous course by a minimum of 2".
- The felt roofing should be stapled or nailed into position flush with the edge of the sheathing and the molding on the 1 x 6 gable fascia. (Fig. 2).

4. SELECTING THE PROPER SHINGLES

- There are many types of asphalt shingles. A few of the more popular types are illustrated in Fig. 3. Although they vary widely in size, most shingles are laid with a 5" exposure. Each manufacturer will recommend a specific exposure which should be followed carefully.

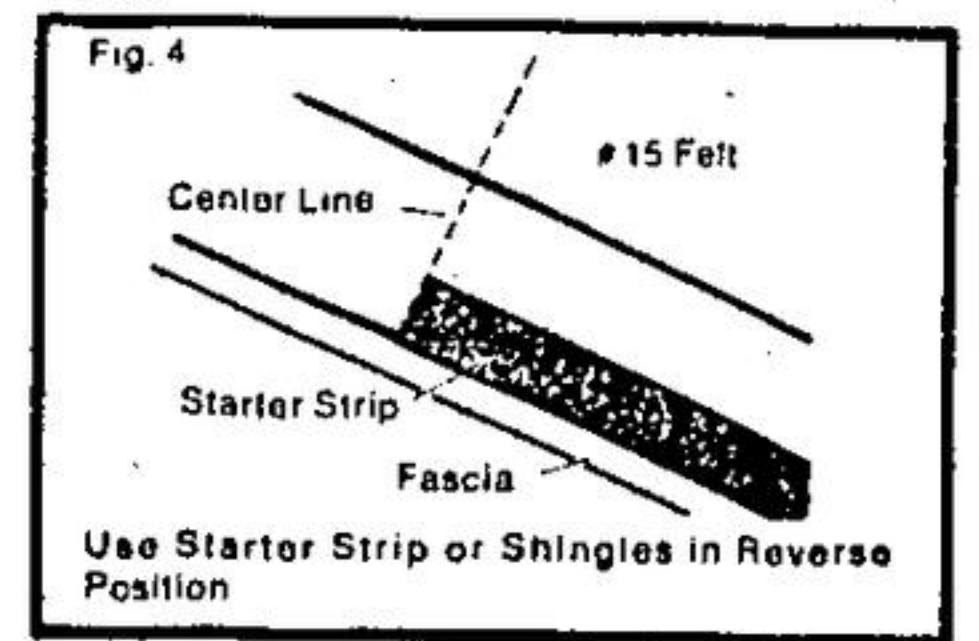


There are Many Types of Asphalt Shingles

5. DETERMINING HOW MANY SHINGLES & NAILS NEEDED

- First, estimate the square footage of the roof. To do this measure the length of the roof from one end of the house to the other and multiply by the width of the roof or the distance from the eave (bottom) to the hip (top). This will give you the total square footage of roofing materials required to do one side of the roof.
- Multiply square footage of one side by two to determine the total amount of roofing needed for both sides.
- Divide by 100 to determine how many "squares" will be required.
- A square of roofing will cover 100 square feet. Almost all asphalt shingles are baled three bundles per square.
- You will need approximately 2 1/2 pounds of roofing nails for each square of roof. One and

one quarter or 1 1/2" roofing nails are recommended for applying asphalt shingles on new roof. Always follow the shingle manufacturer's recommendations regarding the type of nails to use.



Use Starter Strip or Shingles in Reverse Position

6. STARTING THE JOB

- Many manufacturers provide a special starter strip. (Fig. 4), to stiffen the projecting edge of a shingled roof. If a starter strip is not provided, shingles may be turned in reverse position. (Fig. 4), to form a starter strip.
- Since most strip shingles are 36" in length the number of starter shingles can be determined by measuring the length of the roof and dividing by three.
- One bundle of 12" x 36" shingles will provide approximately 93 lineal feet of starter strip.
- A 9" strip of 90 pound roll roofing can be used face down as a starter strip, but most people prefer to use the shingles as illustrated.
- The starter strip should be projected out over the gable end and the eaves approximately 1/2".

7. WHERE TO START

- To keep the cutting of shingles to a minimum, locate the exact center of the roof and mark it with a chalk line. (Fig. 5).
- Center the first shingle on the starter strip exactly on the center line. (Fig. 5), and nail it into position.
- Butt each shingle in the run up against the starter shingle and continue to apply shingles out to the end of the run in each direction.
- This will mean that the last shingle on each run will be the only shingle you will have to cut.

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COMPACT EFFICIENT DESIGN

This smaller home, which meets the minimum CMHC and NHA requirements can be built inexpensively, and will fit easily on a 50 foot lot.

Later on, as the budget allows, a carport could be attached to the left side, but be sure to make allowances for it when you build, taking into account side lot requirements. To be sure, check with the local municipal authority about placement allowances and other building requirements. It's best to know the regulations at the planning stage — it can be expensive to find out later on.

The front entry leads to the living room and the central hallway. The living room is designed so as to achieve the most efficient use of space. The rear door, a convenience for summer outdoor living is placed in the best location so as not to lose the use of any valuable kitchen area. There's a broom closet too, located in just the right place to store the vacuum cleaner, and brooms and mops for easy access for cleaning.

The three bedrooms are all located conveniently close to the full bath. Each bedroom has adequate closet space and a window for light and fresh air. The master bedroom is a good size with a surprising amount of closet space.

Completely separate from the rest of the home is the utility and storage area. As shown on the plan there's room for a small freezer as well as the washer and dryer in the utility room.

If you want a smaller home choosing the best design, which makes the most effective use of available space is all important. This plan builds comfort into a small square footage.

As with any stock plan available, this plan can be suited to your needs or built as is. For instance, in place of the planter at the front door, install a half-wall with decorative spindles. Perhaps you'll want a fireplace later on. If you are building one with natural field stone for instance it would be wise to have the foundation poured right away. In the case of an acorn or franklin stove poured foundations are generally not necessary.

Whatever your choice, it saves frustration and money to plan ahead. Plans for design No. P5-3281 may be obtained at a cost of \$56 for a set of three and \$9 for each additional copy. Allow \$2 to cover postage and handling.

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The Energy Savers
By Richard Charles 23
A bargain in your basement
There's a lot to be said for insulating your basement on the inside. In the first place, you can lose a fair amount of money with heat that can escape from that part of the house. Secondly, if you insulate on the inside, you are able to do the job in reasonable comfort at any time of the year.
Another big advantage of the inside job is that you can both insulate and refinish the basement at the same time, and so provide yourself with a snug extra room or two down there. Insulation also gives a degree of sound-proofing. Altogether, having insulation in the basement can be quite a bargain.
It is best to put up a wood-frame wall to start with, if you can. This gives you a choice of using either the batt and blanket type of insulation, or the rigid foam type.
Batts and blankets contain glass or mineral fibre, and are relatively inexpensive. They are easy to work with. But mineral fibre usually has a higher R value (resistance to heat transfer) per inch of thickness.
Rigid foam insulation generally has a higher R value than either of the fibres. The most economical kind is polystyrene foam, one form of which is the product known as "Styrofoam". An alternative is phenolic foam, which is more fire-resistant than polystyrene. Or you could use polyurethane slabs, but these cost more than polystyrene, and they will deteriorate unless you give them a metallic covering all over. In any case any of the foam boards must be covered with a fireproof barrier like gypsum board.
If your basement is plagued with moisture, you should insulate it on the outside. But in some cases this is impracticable, and there are ways of checking the moisture. It must be brought under control or it will ruin the inside insulation.
The recommended vapour moisture barriers with all types of insulation is polyethylene. This is the normal protective treatment for insulation. However, if the basement wall is slightly damp, you need to cover it with a moisture barrier of 2-mil polyethylene extending from the floor up to ground level. The wet basement (which cannot be insulated inside) calls for more drastic remedies, but this subject cannot be dealt with satisfactorily in this brief article.
If for any reason you find it impossible to put up a wood frame on your basement wall, this need not prevent you from applying insulation on the inside. Guard against dampness by painting the wall with a waterproofing agent. Then apply one of the rigid foam types of insulation. They come in panels and can be secured to the wall but must be covered with fireproof material.
The full story on basement insulation (and for the rest of the house) appears in Keeping the Heat In, which is issued by the Office of Energy Conservation, Department of Energy, Mines and Resources. It is obtainable free from Box 3500, Station C, Ottawa, Ontario, K1V 4G1.
Don't forget how cold a concrete floor can be, if you expect to relax comfortably in a basement room. You can overcome this problem by laying a subfloor over the concrete, and then covering the subfloor with tiles or carpeting.
Yet another escape route for the heat to the basement windows. As in other parts of the house, you have the choice of stopping the leakage by fitting them with storm windows, double glazing or sheets of polyethylene. You should also plug up any gaps or cracks with caulking and weatherstripping. Make sure that the insulation you apply to the basement walls fit as snugly as possible around the windows. If you can't insulate your entire basement maximum savings can be achieved with minimum investment by stuffing insulation into the header space. The place where the main floor sits on top of the foundation.
For specific questions dealing with insulation techniques, phone the Insulation Hotline, 1-800-267-9563 toll free.

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