# Applying Double Coverage Roll Roofing

Double coverage roll roofing is a 36-inch-wide sheet of which 17 inches are intended for exposure and 19 inches for a selvage edge. It provides double coverage for the roof and may be used on slopes down to 1 inch per foot.

The 17-inch exposed portion is covered with granules while the 19-inch selvage portion is finished in various manners depending on the manufacturer. Some saturate the selvage portion with asphalt; some saturate and coat it.

The selvage edge and all end laps should be cemented according to the manufacturer's recommendations. Thus, it is important to know the requirements of the particular product being used and to follow the roofing manufacturer's directions concerning the type and quantity of adhesive.

Make certain there is adequate roof drainage to eliminate the possibility of water standing in puddles. This is especially important on the low slopes on which double coverage roofing is commonly used. Choose the correct type and length of nail to fit the application. The fastener should be able to penetrate the deck 3/4 of an inch or through the deck panel.

Observe the same precautions concerning storage, application temperature and warming of the rolls as those described in Chapter 10 for single coverage roll roofing. Similarly, store asphalt cements in a warm place until ready for use. Never heat the cement directly over an open flame. Do not dilute the cement with solvents.

Application of double coverage roll roofing may be parallel to the eaves or parallel to the rake. Although 19-inch selvage roll roofing is discussed here, any roll roofing may be applied in the same manner to obtain double coverage if the lapped portion of the sheet is 2 inches wider than the exposed portion.

Before applying the roofing, prepare the deck and install flashings in the same manner as described in Chapter 6 for strip shingles. Valleys will be the open type, so follow the appropriate valley flashing procedures.

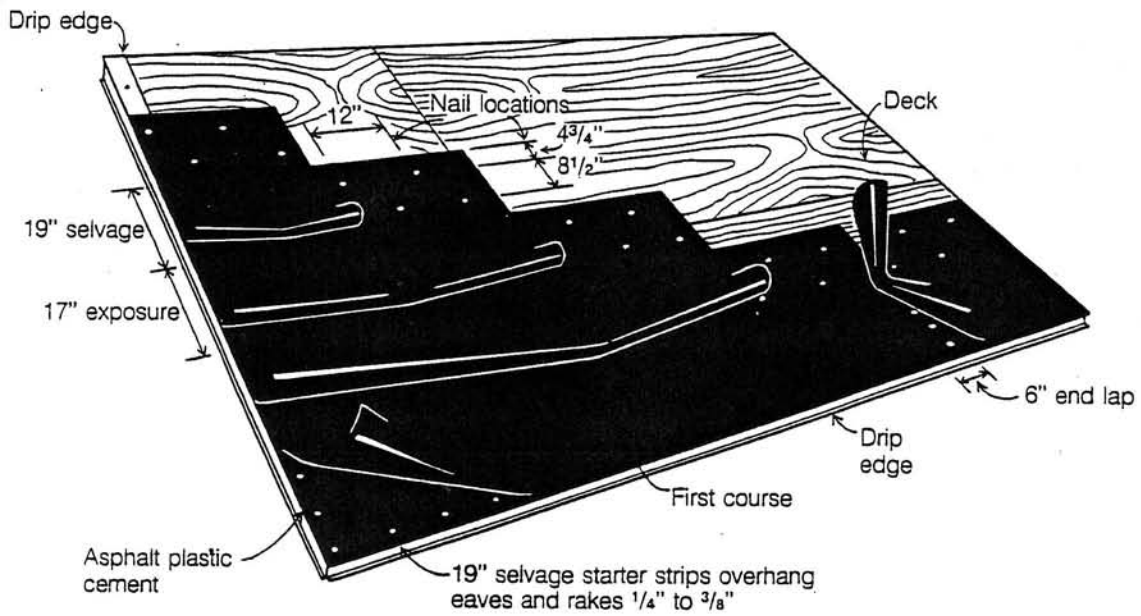


*Figure 63:* Application of double coverage roll roofing parallel to the eaves

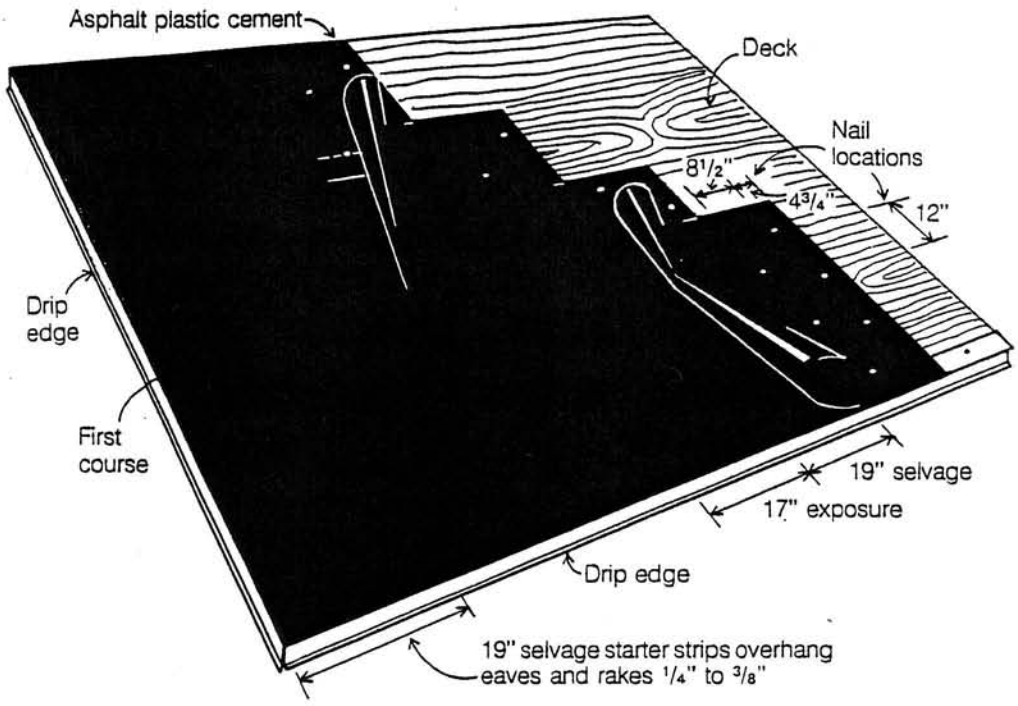


*Figure 64:* Application of double coverage roll roofing parallel to the rake

## APPLICATION PARALLEL TO THE EAVES

**STARTER STRIP.** Remove the 17-inch granule-surfaced portion from a sheet of double coverage roll roofing. Place the remaining 19-inch selvage portion parallel to the eaves so that it overhangs the drip edge 1/4 to 3/8 inch at both the eaves and rakes. Fasten it to the deck with two rows of nails, one on a line 4 3/4 inches from the top edge of the strip, the other on a line 1 inch above the lower edge. Space the nails 12 inches on center, slightly staggering them in each row. See Figure 63.

**FIRST COURSE.** Cover the entire starter strip with asphalt plastic cement. It is recommended that asphalt plastic cement conforming to specification ASTM D2822, Type II be used. *Avoid excessive use of cement as it may cause blistering.* Then position a full-width sheet over it. Place the sheet so that the side and lower edge of the granule-surfaced portion are flush with the rake and eaves edges of the starter strip. Fasten it to the deck with two rows of nails in the selvage portion. Locate the first row 4-3/4 inches below the upper edge and the second row 8-1/2 inches below the first with the nails spaced 12 inches on center and staggered.

**SUCCEEDING COURSES.** Position each succeeding course so that it overlaps the full 19-inch selvage width of the course below and nail the selvage portion in the same manner as the first course. Turn the sheet back and apply cement to the full selvage portion of the underlying sheet according to the manufacturer's recommendations. In cold weather, turn the sheet back carefully to avoid damaging it. Spread the cement to within 1/4 inch of the edge of the exposed portion. Press the overlying sheet firmly into the cement. Apply pressure over the entire lap using a broom or light roller to ensure complete adhesion between the sheets. It is important to apply the cement so that it flows to the edge of the overlying sheet under the application pressure. *Avoid excessive use of cement as it may cause blistering.* Follow the roofing manufacturer's recommendations.

**END LAPS.** All end laps should be 6 inches wide. Fasten the underlying granule-surfaced portion of the lap to the deck with a row of nails 1 inch from the edge. Space the nails 4 inches on center. Then spread asphalt plastic cement evenly over the lap area. Embed the overlying sheet in the cement and secure the selvage portion of the sheet to the deck with nails on 4-inch centers in a line 1 inch from the edge of the lap. Stagger all end laps so that those in successive courses do not line up with one another.

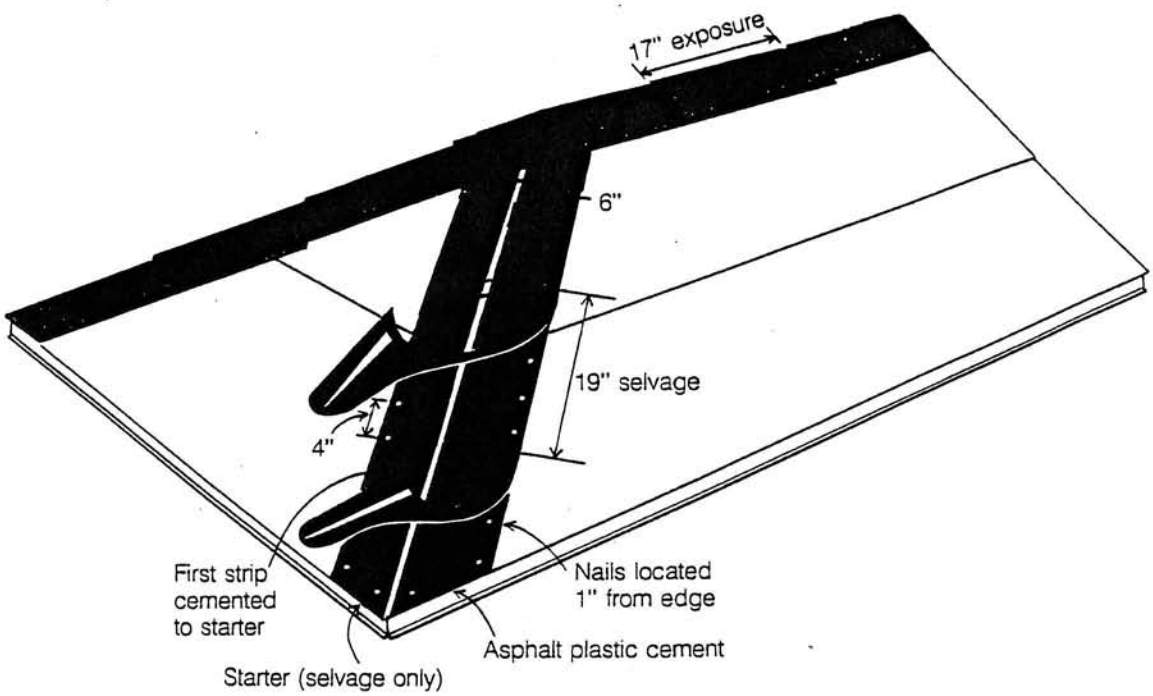


*Figure 65:* Application of double coverage roll roofing to hips and ridges

**Caution:** Never cement roll roofing directly to the deck. This will ensure that the sheets do not split due to deck movement. To make certain that roll roofing is not cemented to the deck when hot application is allowed, nail down a base sheet.

## APPLICATION PARALLEL TO THE RAKE

With this method, the sheets are applied vertically from the ridge down. Begin by applying starter strips to both rakes using the same procedures as in horizontal application. Cover the starter strip with asphalt plastic cement and apply a full-width sheet over it as the first course. Position all end laps so that the upper sheet overlies the lower one, thereby carrying drainage over the joint rather than into it. The remainder of the application is then the same as that for parallel to the eaves. Figure 64 shows the general arrangement for application parallel to the rake.

## HIPS AND RIDGES

For both applications, trim, butt and nail the roofing sheets as they meet at a hip or ridge. Snap chalk lines 5 1/2 inches from and parallel to the joint on each side to guide the installation.

Next, cut 12- x 36-inch strips of roll roofing that include the selvage portion. Bend the strips lengthwise to lie 6 inches on either side of the joint. In cold weather, be sure to warm the strips before bending. Start applying the strips at the lower end of the hip or at the end of the ridge opposite the direction of prevailing winds.

Cut the selvage portion from one strip to use as a starter. Fasten this strip in place by driving nails 1 inch from each edge and 4 inches on center over the full length. Cover it completely with asphalt plastic cement. Fit the next folded strip over the starter and press it firmly into the cement, nailing it in the same manner as the starter but only in the selvage portion. Cover the selvage portion with cement, press the next strip over it and nail and cement that selvage portion. Continue the process until the hip or ridge is completed. Figure 65 illustrates the procedure.

Double coverage roll roofing is frequently used on sheds which contain no hips or ridges. To finish this type of roof, trim and nail the selvage portion of the last course to the edge of the roof. Then trim the exposed, granule-surfaced portion that had been cut from the starter strip to fit over the final selvage portion and cement it in place. Finally, overlay the entire edge with metal flashing and cement it in place.