



## Application Instructions

### Mineral Surfaced Roll Roofing-MSR

**Not to be used as part of a Built-Up Roofing System.**

Apply over Wood Decks when inclines of not less than 1" per foot. The deck must drain freely at all points.

**General:** It is suggested that roll roofing not be applied at temperatures below 50°F. When it is necessary to handle the material below this limit, it should be warmed before unrolling in order to avoid cracking.

The roll roofing should be cut into maximum 18' lengths and stacked in a pile on a smooth surface before application until they flatten out. This is important to prevent wrinkling after application.

**Roof Deck:** The roof deck shall be dry, firm, smooth, and constructed of minimum 3/8" thick plywood, 7/16" oriented strand board (OSB) or dry well-seasoned lumber, nominal 1" thick, not over 6" in width. Boards shall be laid close together and securely nailed. If plywood or OSB is used it should be as recommended by the American Plywood Association, Underwriters' Laboratories, Inc.®, or local building codes. Plywood and OSB sheathing must be spaced a minimum of 1/8" and maximum 1/4".

#### Preparation of Roof Deck

**New Constructions:** Install metal drip edges at eaves and rakes. Sweep roof deck clean of loose particles. Apply

**Re-Roofing:** Remove any slag or gravel. Cut open all blisters and buckles and nail both edges to give a smooth surface, also nail edges of large cracks. Remove loose nails and drive into second deck. Before beginning application of roofing, sweep roof deck clean of all loose particles and dirt.

## Application

**Nails:** Use large head corrosion-resistant nails, 11 or 12 gauge, with heads at least 3/8" in diameter. Nails should be long enough to penetrate into wood deck at least 3/4" or completely through plywood deck or OSB a minimum of 1/8".

## Concealed Nail Method

**Edge Strips:** Place 9" wide strips of roll roofing along the eaves and rakes, positioning them to overhang the deck 1/4" to 3/8". Fasten the strips with rows of nails located 1" and 8" from the roof edge and spaced 4" on center in each row.

**First Course:** Apply the first course with a full-width strip of roll roofing so that its lower edge and ends are flush with the edge strips at the eaves and rakes. Fasten the upper edge with nails so that the next course will overlap them a minimum of 1". Lift the lower edge of the first course and cover the edge strips with lap cement. In cold weather, turn the course back carefully to avoid damaging the roofing material. Press the lower edge and rake ends of the first course firmly into the cement-covered edge strips. Work from one side of the membrane to the other to avoid wrinkling or bubbling.

**Second and Succeeding Courses:** Apply the second course so that it overlaps the first course at least 2". Fasten the upper edge to the deck, cement the laps and finish installing the sheet in the same manner as the first course. Follow the same procedure for each successive course. Do not apply nails within 18" of the rake until cement has been applied to the edge strip and the overlying strip has been pressed down.

**Hips and Ridges:** Trim, butt and nail the sheets as they meet at a hip or ridge. Next, cut 12" x 36" strips from the roll roofing and bend them lengthwise to lay 6" on each side of the joint. Do not bend the strips in cold weather without first warming them. These will be used as "Shingles" to cover the joint, each one overlapping the other by 6".

Start hips at the bottom and ridges at the end opposite the direction of the prevailing winds. To guide the installation, snap a chalk line 5-1/2" from and parallel to the joint on both sides. Apply asphalt plastic cement, driving two nails 5-1/2" from the edge of the end that will be lapped. Cover the 6" lap on this strip with lap cement. Then place the next strip over it. Nail and cement in the same manner as the first strip. Continue the same procedure.