

Installation Instructions for Metal Roofing Shingles

Storage

For best results, pick up your metal when you are ready to begin installation. Metal shingles stored in a stack can develop staining or white rust if exposed to moisture. This can reduce the life of the shingles. If you cannot use your metal shingles immediately, store inside a well ventilated, dry location. Store the shingles off of the ground on wood or concrete block. Any outdoor storage is at the customer's own risk. If outdoor storage cannot be avoided, protect the metal using a canvas cover or waterproof paper. Never cover the metal with plastic, as this may cause condensation and white rust to form. Our prepainted shingles will give the best results. Keep roof free of debris which could trap moisture on the roof, causing corrosion. Metal life can be reduced significantly by environmental factors such as salt spray, industrial emissions and animal waste. For best results, metal shingles should be painted/repainted at the first sign of corrosion (surface corrosion of 5% or less).

Safety Precautions

Always wear heavy gloves when working with metal shingles to avoid cuts from sharp edges. When cutting shingles, always wear safety glasses and sweep off any metal shavings immediately to prevent eye injury from flying metal fragments.

If you must walk on a metal roof, take great care. Metal panels can become slippery, so always wear shoes with non-slip soles. Avoid working on metal roofs during wet conditions when the panels can become extremely slippery. Walking or standing on a metal roof that does not have a plywood or other solid deck beneath it is not recommended.

General Installation Information

Green or damp lumber is not recommended. Moisture released from the damp lumber may damage the metal shingles. Nails installed in green or damp lumber may back out.

Remove any loose metal shavings left on roof surface immediately to prevent corrosion.

Metal Roofing Shingles come packaged 1 square per box. A box contains 144 shingles. From these 144 shingles, you will get 100 square feet of coverage on your roof.

Installation as a New Roof

For Metal Roofing Shingles, slopes of less than 5" in 12" are not recommended.

Begin your installation by laying a solid plywood deck. Consult your local building codes for required specifications. Lay 30 lb felt paper on top of the deck.

Before laying your first shingle, attach all shingle trim in locations shown in Figure #1. Be sure to apply all trim straight and true as this will guide your shingles and help to keep your roof square. Attach trim with #4 galvanized nails approximately every two feet. To install shingle Vee Valley, first attach valley to roof. Then apply a bead of caulk and attach J-Valley with two nails as shown in Figure #1A.

Figure #1

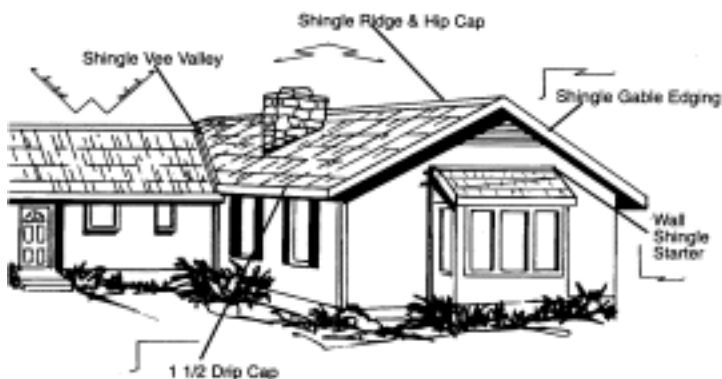
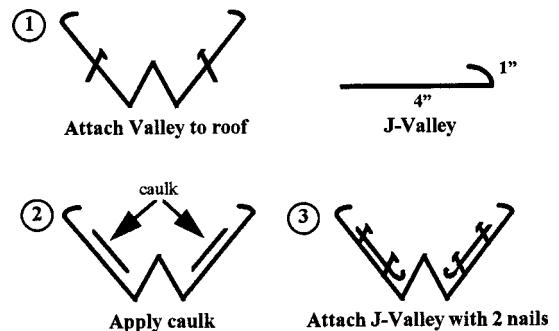


Figure #1A



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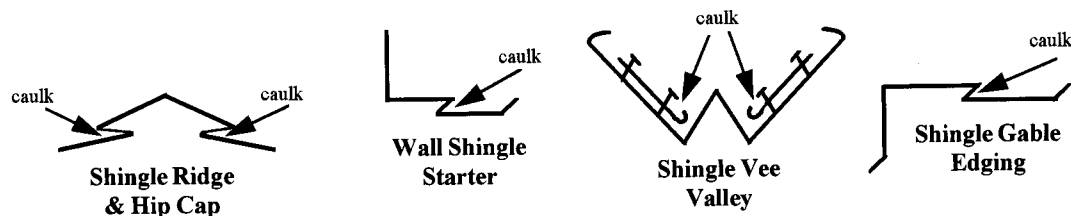
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Begin your shingle installation in the lower left hand corner of your roof. Start by running a chalk line across the lower edge of your roof. Next, apply a bead of silicone caulking which is approved for use with metal roofs to the groove of the trim piece. An example of where to apply the caulk is shown in Figure #2. Slide the shingle into the groove of the trim piece and against the caulk. Carefully line up your first shingle with the corner of your roof and the chalk line to ensure that your first shingle is applied square or straight. Squaring up the first shingle is critical.

Figure #2



Apply three #4 galvanized nails at the nailing points on the shingle as shown in Figure #3.

Slide the next shingle into the groove of the first shingle as shown in Figure #4. Carefully line up the second shingle with the first and the chalk line to make sure your roof will continue to be straight. Then apply the nails to the second shingle.

Figure #3

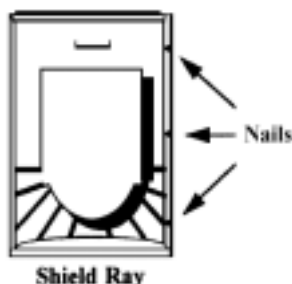
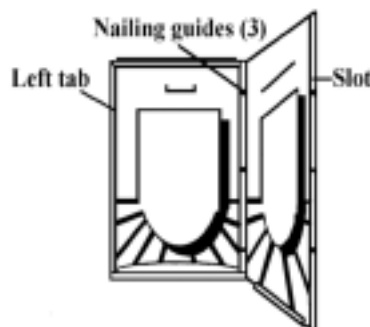


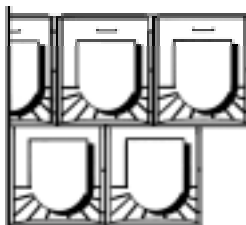
Figure #4



Continue across the roof until you reach the other side. When you reach the other side, you will need to cut the last shingle to fit exactly and snugly. Simply measure how much coverage you need and cut the shingle with a pair of tin snips. Next apply a bead of the silicone caulking to the groove of the trim piece as shown in Figure #2 above. Slide the last shingle into the groove in the trim and against the caulk.

Now, begin your second row of shingles. Again, begin on the left hand side. The second row of shingles should be offset from the first row. To do this, cut the first shingle of the second row in half and slide it into the trim piece with the silicone caulking applied as before. The second row of shingles should overlap the top of the first row of shingles extending down to just cover the center bead. See Figure #5.

Figure #5



Proceed across the roof to complete the second row. Offset each new row until you reach the peak of the roof. At the peak of the roof, cut the shingles lengthwise to fit exactly into the groove of the ridge and hip cap. Apply silicone to the groove of the trim piece as before prior to installing the last row of shingles.

You may also install your shingles over an existing shingle roof.

To do this, first verify that your structure can support the weight of another roof layer. Metal roofing shingles weigh approximately 65 lbs per square in 29 gauge and approximately 85 lbs per square in 26 gauge.

You may apply your metal roofing shingles directly over your existing shingles, following all other directions above. Be sure to use a roofing nail which is long enough to penetrate any existing roofing layers and attach your shingles to the plywood deck.

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