

---

# How To Install Metal Roofing

---

*How To Install Metal  
Roofing*

*Downloaded from  
[web1.enteraskincare.com](http://web1.enteraskincare.com)  
by Alisson & Joshua*

---

## WHY CHOOSE METAL ROOFING FOR YOUR HOME

---

Metal roofing has become one of the most popular choices for homeowners seeking durability, energy efficiency, and long-term value. Unlike traditional asphalt shingles, metal roofs can last 40 to 70 years or more with proper installation. They resist fire, hail, high winds, and even snow loads, making them an excellent investment for almost

any climate. However, the key to unlocking these benefits lies in knowing **how to install metal roofing** correctly. A poorly installed metal roof can lead to leaks, panel damage, and costly repairs down the line. This guide walks you through the entire process, from preparation to final inspection, so you can achieve a professional-grade result.

---

## BENEFITS OF INSTALLING A METAL ROOF

---

Before diving into the installation process, it helps to understand why

metal roofing is worth the effort. Metal roofs reflect solar radiant heat, which can reduce cooling costs by 10 to 25 percent. They are also lightweight, often weighing half as much as asphalt shingles, which puts less stress on your home's structure. Metal panels are fully recyclable at the end of their life, making them an environmentally friendly choice. Additionally, many insurance companies offer discounts for metal roofs because of their fire resistance and durability in severe weather. When you learn **how to install metal roofing** the right way, you maximize these advantages and protect your home for decades.

---

## **PLANNING AND PREPARATION FOR METAL ROOF INSTALLATION**

---

Proper planning is the foundation of any

successful roofing project. Begin by measuring your roof accurately. Measure the length and width of each roof plane, including dormers and valleys. Multiply length by width to get the square footage, then divide by 100 to determine the number of squares you will need. A square is a roofing term equal to 100 square feet. Always add 10 to 15 percent extra material for waste, overlaps, and cutting around protrusions like chimneys and vents. Next, check your local building codes and homeowner association rules. Some areas have specific requirements for metal roofing, including minimum gauge thickness, fasteners, and underlayment types. Obtain any necessary permits before you begin. Finally, decide on the type of metal roofing you will install. Standing

seam, corrugated panels, and metal shingles all have different installation methods. This guide focuses on standing seam and exposed fastener panel systems, which are the most common for DIY and professional installations.

## Gathering Tools and Materials

Having the right tools on hand makes the installation smoother and safer. Here is a list of essential tools and materials you will need:

- **Metal panels** and trim pieces (ridge caps, drip edge, flashings)
- **Underlayment** (synthetic felt or ice and water shield for valleys

and eaves)

- **Fasteners** (screws with neoprene washers, or hidden clips for standing seam)
- **Power drill** with hex-head driver bits
- **Tin snips** or electric shears for cutting panels
- **Measuring tape**, chalk line, and carpenter's square
- **Ladder** and roof jacks or staging for safety
- **Caulking gun** and high-quality sealant
- **Safety harness**, hard hat, and non-slip shoes
- **Circular saw** with a metal cutting blade (optional for long cuts)

Take time to inspect all materials for

damage before installation. Store panels in a dry, flat area to prevent bending or scratching.

---

### **SAFETY FIRST: WORKING ON A METAL ROOF**

---

Metal roofs can be slippery, especially when dry and dusty, and they become extremely slick when wet. Always work with a partner when possible. Use a safety harness anchored to a secure point on the roof or to roof jacks. Wear soft-soled shoes with good traction. Be mindful of sharp edges on cut metal panels—wear heavy gloves and long sleeves. Keep your work area clear of loose tools and debris. Never work on a roof during wet, windy, or icy conditions. If you are not comfortable working at heights, hire a professional for the

installation.

---

### **STEP-BY-STEP GUIDE: HOW TO INSTALL METAL ROOFING**

---

Follow these steps carefully to ensure a watertight, long-lasting metal roof.

## **Step 1: Remove the Old Roofing (If Necessary)**

In many cases, metal roofing can be installed over a single layer of asphalt shingles, provided the existing roof deck is solid and flat. However, removing old shingles gives you a chance to inspect the sheathing for rot or damage. If you

choose to remove old roofing, strip it down to the wood deck, remove all nails and staples, and replace any damaged plywood or OSB. A clean, smooth deck is essential for a flat metal installation. If you are installing over existing shingles, make sure the surface is clean and free of debris, and add extra furring strips to create a nailing surface and improve ventilation.

## Step 2: Install the Underlayment

Underlayment provides a secondary water barrier beneath the metal panels.

Start at the bottom edge of the roof and roll out the underlayment horizontally, overlapping each row by at least 4 inches. Use a cap nailer or staples with plastic caps to secure it. In valleys and along eaves, install a self-adhering ice and water shield for extra protection against ice dams and heavy rain. Make sure the underlayment extends up and around all roof penetrations, such as vent pipes and chimneys. Trim it neatly and seal around penetrations with compatible tape or sealant.

## Step 3: Install

## Drip Edge and Flashing

Drip edge is installed along the eaves and rake edges of the roof to direct water away from the fascia and into the gutters. Place the drip edge over the underlayment along the eaves, and under the underlayment along the rakes. Secure it with roofing nails every 12 inches. Next, install valley flashing in any roof valleys. Use pre-formed valley metal that matches your panel color and gauge. Center it in the valley and secure it on both sides, leaving the center free of fasteners to allow water to flow freely. Seal all seams and overlaps with sealant.

## Step 4: Begin Installing Metal Panels

Start at the eave on the side of the roof opposite the prevailing wind. This prevents wind from driving rain under the panel overlaps. Align the first panel so it overhangs the eave by 1 to 1.5 inches. Snap a chalk line to ensure your first row is perfectly straight. For exposed fastener panels, drive screws through the raised ribs into the decking. Use a drill with a clutch to avoid over-tightening the screws, which can crush the neoprene washer and cause leaks. For standing seam panels, attach hidden

clips to the deck, then snap the next panel onto the clip. This creates a clean, fastener-free surface. Continue installing panels across the roof, overlapping side laps according to the manufacturer's instructions. Typically, side laps are at least one rib wide and may require a bead of sealant for watertight integrity.

## Step 5: Cut and Fit Around Obstacles

When you encounter a chimney, vent pipe, or skylight, measure carefully and cut the panel to fit. Use tin snips for small cuts or a circular saw with a metal

blade for long straight cuts. Always wear eye protection when cutting metal. Cut panels slightly oversize and trim to fit precisely. Install flashing around each obstacle before securing the panel. For vent pipes, use a rubber boot or metal flashing cone. For chimneys, step flashing and counter-flashing are required. Seal all flashing edges with a high-quality polyurethane or butyl sealant.

## Step 6: Install Ridge Cap and

## COMMON MISTAKES WHEN

### Trim

After all full panels are in place, install the ridge cap along the peak of the roof. Ridge caps cover the gap between panels on opposite sides of the roof and allow ventilation. Attach the ridge cap with screws on each side, but leave the top of the cap free of fasteners to prevent water entry. Use foam closure strips or ridge vent material underneath the cap to keep out insects and debris while allowing airflow. Install gable trim, rake trim, and any other finishing pieces according to the manufacturer's instructions. Seal all exposed screw heads with sealant or touch-up paint to prevent oxidation and leaks.

---

## LEARNING HOW TO INSTALL METAL ROOFING

---

Even experienced DIYers can make errors during metal roof installation. Here are the most common pitfalls and how to avoid them:

- **Over-tightening screws:** This crushes the rubber washer and creates a leak path. Use a drill with a depth stop or a manual screwdriver for final tightening.
- **Under-tightening screws:** Loose screws allow water to seep in and cause panels to lift in high winds. The washer should be slightly compressed, not distorted.
- **Improper panel alignment:** A misaligned first panel throws off



the entire roof. Take time to measure and snap chalk lines.

- **Mixing metal types:** Different metals (steel, aluminum, copper) can cause galvanic corrosion when in contact. Use matching metals for all components.
- **Skiping underlayment:** Even though metal roofs shed water well, underlayment is essential for catching condensation and leaks from ice dams or severe storms.

---

## MAINTENANCE TIPS FOR YOUR NEW METAL ROOF

---

Once your metal roof is installed, it requires minimal maintenance. Inspect the roof twice a year, in spring and fall, and after major storms. Look for loose or damaged panels, lifted fasteners, and

debris accumulation in valleys. Remove leaves, branches, and dirt with a soft broom or leaf blower. Avoid walking on the roof unnecessarily—if you must access it, step only on the flat areas of the panel, not the raised ribs. Clean gutters regularly to prevent water backup. Touch up any scratches or exposed fastener heads with matching paint to prevent rust. A well-maintained metal roof can easily last 50 years or more.

---

## CONCLUSION

---

Learning **how to install metal roofing** is a rewarding skill that can save you thousands of dollars in labor costs and give you a roof that outperforms traditional materials in nearly every way. From careful planning and material

selection to precise panel alignment and flashing details, each step contributes to a finished roof that is durable, energy-efficient, and beautiful. While the process demands patience, attention to detail, and respect for safety, the result is a long-term investment that adds

value and peace of mind to your home. Whether you are a seasoned DIYer or a determined first-timer, following these steps will help you achieve a professional-quality metal roof that stands up to the elements for decades to come.