

Florida's Top-Rated
Metal Roofing Supply Company



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INSTALLATION MANUAL

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The details included in this guide are for general and illustrative use and may not be applicable in all environments and conditions. Note that specific projects or local jurisdictions may have alternate requirements. Always consult the local building code and specification documents for your project to ensure all applicable requirements are met.









INSTALLATION: FASTENING AND CUTTING

FASTENING METAL PANELS

In the state of Florida, metal roofing must be tested and approved to specific standards. In most cases, the cause of failure is when fasteners pull out of the plywood. **This makes correct installation of the fasteners the most important element of ensuring the panel can resist the wind.** A common problem is overtightening fasteners—in thin plywood, overtightening will strip out the plywood decking as a result of just one or two extra turns. In other words: **overtightening fasteners will result in a roof panel that cannot resist the wind as well as it should.**

For exposed fastener panels, use a fastener with a sealing washer. Be sure the sealing washer is seated tightly, but does not squeeze out from under the metal washer. Both over and under tightening are likely to create watertightness issues.

For all panels, install the number, type, and spacing of fasteners as required by the applicable product approval.

Installing fasteners will produce small metal shavings as the fastener taps through the metal panel. Always remove all metal shavings/fragments from the roof immediately. Failing to remove these shavings will result in rusting and will void any warranty.

FIELD CUTTING METAL PANELS

Use tin snips or an electric nibbler/shear tool to cut metal panels in the field. **American Metal Supply does not permit the use of circular saws, reciprocating saws, or other abrasive cutting tools.** These tools will create significant heat which can burn the panel coating and will produce tiny, hot metal particles which may will burn into the panel. Either case will result in premature rust and corrosion of the panels, and void any warranties.



REROOFING

It is generally best to remove any existing roofing (shingles, etc.) before installing metal roof panels. This allows for an inspection of the roof deck and underlayment, and replacement of any damaged areas as needed. It is also important to provide a flat and smooth deck for the metal roof panels.

When a project requires installation over existing roofing, most building codes allow this when certain conditions are met. Check the applicable building code if needed. To install over existing roofing, consider the following:

- Inspect the roof for defects and be sure the surface is flat, level, and smooth. Repair existing roofing and/or sheathing as needed.
- Check for nails or other protrusions and remove. Remove any debris (leaves, moss, etc).
- In most cases, remove the ridge and hip cap, and flashing around vents or pipes.
- Cover the deck with an approved underlayment, installed per the applicable code provisions and manufacturer's instructions.
- Install metal panels and trim.



CARE AND MAINTENANCE

All roofs will require some amount of periodic maintenance. Some annual maintenance items to consider:

- Clean gutters to prevent water backup that could wick back under the eave drip.
- Be sure valleys and other waterways on the roof are clear of leaves or other debris. Any area where water can pool (or wet leaves gather) presents a risk to the roof.
- Look for any loose flashing, panels or fasteners. Check for hail damage or damage from other falling objects (branches, etc.).
- Look carefully around chimneys, vents, and the areas around HVAC units; these can expose the roof to chemicals which may cause rust or other issues.
- Check any areas with sealant—sealant almost always degrades before the metal itself.
- Trim back trees that are touching or overhanging the roof.
- For exposed fastener roofing systems, check the fasteners across the roof. Look for any fasteners which may have “backed out” over time as the panels expand and contract. Also check for any fasteners where the washers have degraded. Re-tighten or replace fasteners as required. Often, when replacing fasteners, the next largest fastener may be required (e.g. replacing a #10 fastener may require a #12 fastener).









EXPOSED FASTENER





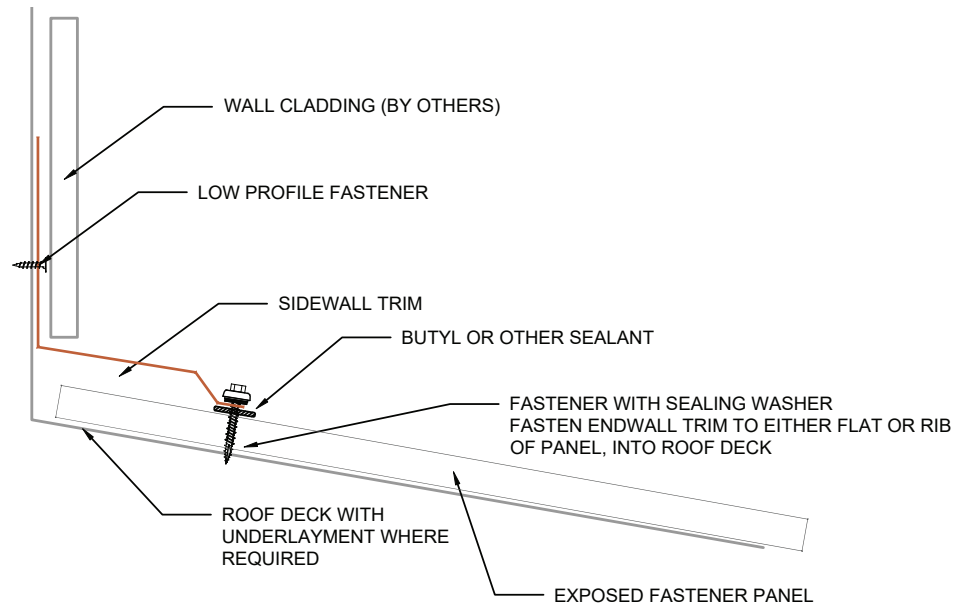




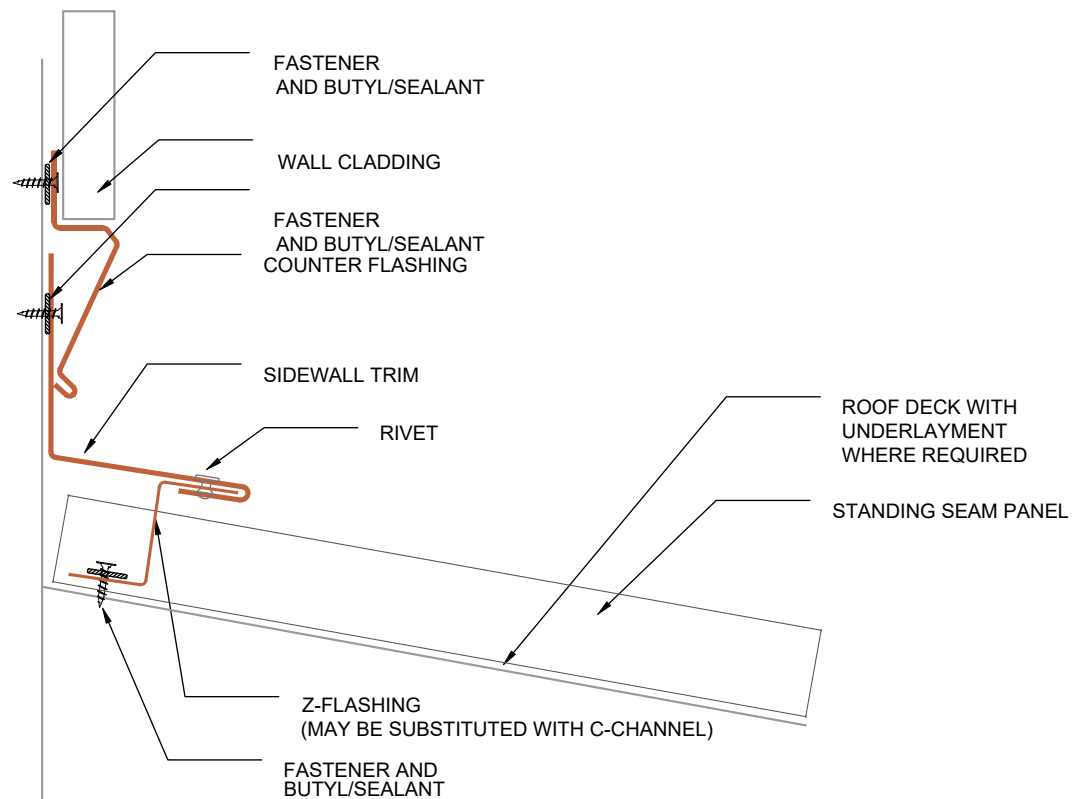


TRIM DETAILS: ENDWALL NOT TO SCALE

EXPOSED FASTENER



STANDING SEAM





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