



## Installation Guidance for Metal Panel Roof Systems

This guide explains key guidelines for installing the Master Flow™ Pivot Pipe Boot Flashing and Master Flow™ Bath & Dryer Rooftop Appliance Vent on non-GAF metal panel roof systems. **Always refer to the installation instructions of each individual Master Flow™ rooftop accessory product available on [gaf.com](https://www.gaf.com) and confirm compatibility with the metal roof panel manufacturer before installation on the roof.** Using careful workmanship, always follow established best practices for installation of metal panel roof systems to help ensure proper weather-resistance. For more information, contact **Master Flow™ Technical Services at 1-800-211-9612** or [MasterFlowTech@gaf.com](mailto:MasterFlowTech@gaf.com).

### Safety & Compatibility – Always Check First

| <u>Category</u>      | <u>Requirement</u>   |
|----------------------|--|
| <b>Safety First</b>  | Always wear <b>PPE</b> (safety glasses, gloves, fall-restraint equipment etc.) and follow all local <b>building and plumbing codes</b> .     |
| <b>Slope</b>         | <b>Pivot™ Pipe Boot:</b> 3:12 to 12:12<br><b>Bath &amp; Dryer Vent:</b> 3:12 to 18:12  |
| <b>Compatibility</b> | <b>Panels with flatter profiles are typically most compatible.</b><br><b>Always confirm with the panel manufacturer before installation.</b> |

### Preparation Steps

- Hole Cutting:** Cut the penetration hole. Ensure the hole in the **substrate (roof decking)** is **larger** than the hole in the metal roofing panel.
- Rib Alignment:** If the rooftop accessory crosses a rib, attempt to center the accessory as closely as possible over the **rib's centerline**.
- Fasteners:** Always use **self-sealing screw-in metal fasteners** for all attachment points.

## Installation Methods – *Select Based on Roof Panel Profile*

**Method 1: Surface Mount with Gasket Seal Installation** – This simple method relies on a field-applied sealant to help create a full gasket seal.

### Applicable Scenarios:

1. **Flat Panels:** Applicable on metal roofing panels with large, flat areas that fit the entire rooftop accessory base flashing.
2. **Ribbed Panels (Near Ridge/Wall):** Applicable if using a **flatstock adapter** in order to help create a level platform.

### General Installation Steps:

1. **Apply Gasket Seal:** Apply a thick, continuous bead of **butyl tape under all four sides** (entire perimeter) of the rooftop accessory base flashing.
2. **Align & Press:** Align the rooftop accessory over the hole and press the accessory firmly into the butyl tape to help create a complete seal.
3. **Fasten:** Screw through the accessory base and sealant into the panel below.
  - **Spacing:** Screws should be spaced approximately **1"– 1½" apart** to help provide maximum compression.

**Installation Sequence for Ribbed Panels Using Flatstock Adapter** – There are two options for installing the rooftop accessory on ribbed panels **using a flatstock adapter**—select the one that best suits your installation:

**Option A: Platform First with Accessory on Top** – Helps ensure a uniform, flat seal.

1. **Prep Platform:** Cut the flatstock to span from the rib closest to the penetration up to the ridge/wall flashing.
2. **Install Platform:** Apply sealant along the ribs/panel. Fasten the flatstock directly over the ribbed panel to create a smooth, single, sealed platform.
3. **Mount Accessory:** Install the accessory **on top** of this new flat platform using *Method 1 General Installation Steps* above.
4. **Finish:** Ensure the top edge of the flatstock is properly covered by the ridge cap or wall flashing.

**Option B: Accessory First with Integrated Shroud** – Recommended when the rooftop accessory location is fixed.

1. **Prep & Primary Seal:** If a rib interferes, **snip/crimp the rib until flat**. Apply sealant and **fasten the rooftop accessory** to the roof panel first.

2. **Prepare Shroud:** Cut the flatstock (the "shroud") to fit **over** the rooftop accessory's base. Cut a tight notch around the rooftop accessory's collar. The shroud must extend to the ridge/wall and hang at least **4" past the bottom** of the rooftop accessory.
3. **Install Closure:** Install a **foam or plastic closure strip** on the main roofing panel where the bottom 4" of the shroud will rest.
4. **Seal & Tuck:** Apply sealant to the underside edges of the shroud. Tuck the top edge **under** the ridge/wall flashing and lower the rest of the shroud over the rooftop accessory's base, seating the bottom edge on the closure strip.
5. **Fasten Shroud:** Fasten the shroud down along its perimeter.

**Method 2: Top Flange Underlap with Integrated Flashing** – This is the most secure method, mimicking typical shingle overlap to shed water.

**Applicable Scenarios:** All flat and ribbed panels.

#### **General Installation Steps:**

1. **Modify Ribs (If needed):** If a rib prevents the accessory from sitting flat, **snip or crimp** the interfering rib to allow the rooftop accessory's side flanges to lay flat against the panel. Always ensure all points remain weather-resistant.
2. **Cut the Notch:** On the roof panel **upslope** of the penetration, cut a horizontal notch that is the **exact width of the accessory's base flashing**.
3. **Apply Sealant:** Apply metal-compatible, UV-Resistant sealant to the underside of the rooftop accessory's **lower and side edges**. Also, apply a bead where the cut upper roof panel will meet the rooftop accessory's raised portion.
4. **Tuck & Position:** Slide the **Top Flange** of the rooftop accessory **underneath** the notched upper roof panel. Seat the rooftop accessory firmly into sealant below.
5. **Fasten:** Screw through the exposed lower and side edges of the base flashing.
  - **Spacing:** Screws should be spaced approximately **2" apart**.