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The VentSaver Mounting Plate Kit is an **add-on** product that allows the VentSaver Extreme to be used with or without the optional Upper Wing Kit. The SS VentSaver Mounting Plate can be installed on most standing seam roof panels without panel penetration. The SD VentSaver Mounting Plate can be a necessary option on some screw down panels. The VentSaver Extreme with or without the optional the Upper Wing Kit and or Lower Wing Kit can be mounted on either version of this mounting plate.

CONSIDERATIONS

The VentSaver Extreme is a fully customizable solution for protecting vent and chimney pipes from sliding snow and ice. Various roof pitches and panel configurations create the need to customize the VentSaver Extreme assembly for a perfect fit for your situation. **Even though there are some predrilled holes on some components, it will be necessary to drill holes for this kind of customized installation.** It is highly recommended to have at least 2 people on site for the installation of the VentSaver Extreme with a Mounting Plate.

CHOOSING THE VENTSAVER PLATE ATTACHMENT METHOD

Standing Seam Roofs:

Concealed Fastener, Floating Metal Roofs that can **NOT** accept screw fasteners, require the **(Standing Seam) SS VentSaver Mounting Plate** with included roof clamps. Please verify that the roof clamps will fit your seam before installing.
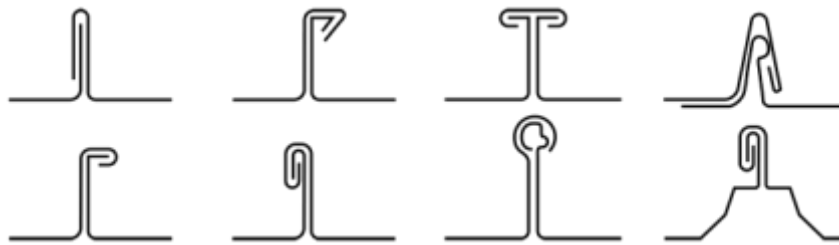
Screw Down Roofs:

When the location of the pipe or chimney makes it difficult to mount the VentSaver Mounting Base, use the **SD (Screw Down) Mounting Plate.** Please verify that you have adequate mounting material underneath of the roof to attach the plate. **Never stitch screw the plate to just the metal roof panel.** It is the responsibility of the installer to fasten the SD VentSaver Mounting Plate into a solid substrate "below the panel" that is adequate enough to support the mounting requirements of the plate. **There must be a minimum of 12 screws installed through the plate, into the substrate or decking below.** The installer must verify and confirm that the screws are the correct length and type for the application.

*All workers should be properly harnessed and anchored to the roof according to OSHA fall protection guidelines.

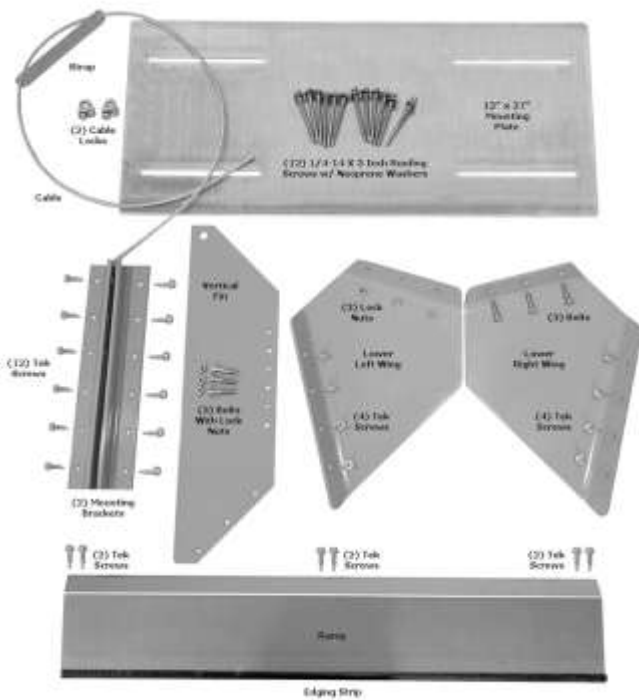## *<u>NEVER</u> use the VentSaver Mounting Plate as a roof anchor tie-off point.

REQUIRED TOOLS

1/4" Drill Bit (For SD VentSaver Plate, Fin and Height Extender holes)
Ratcheting Torque Wrench (capable of reading "inch" in/lbs, **NOT "foot" ft/lbs**.)
2 Blocks of Scrap 2x4 to Protect Roof Panels When Pre-drilling Holes
Pencil or Sharpie to mark the clamps and base bracket holes
1/8" Drill Bit (For Drilling Tek Screw Starter Holes in Plate)
Hacksaw or Chop Saw with Metal Blade or angle grinder
Safety Goggles, Gloves and Fall Protection
Caulk Gun
Tape Measure
Cordless Impact Driver with Socket Adapter
Socket Wrench to fit Socket Sizes Below
9/16" Socket for RoofClamps
7/16" Socket & 7/16" Wrench
3/8" Socket for Tek Screws
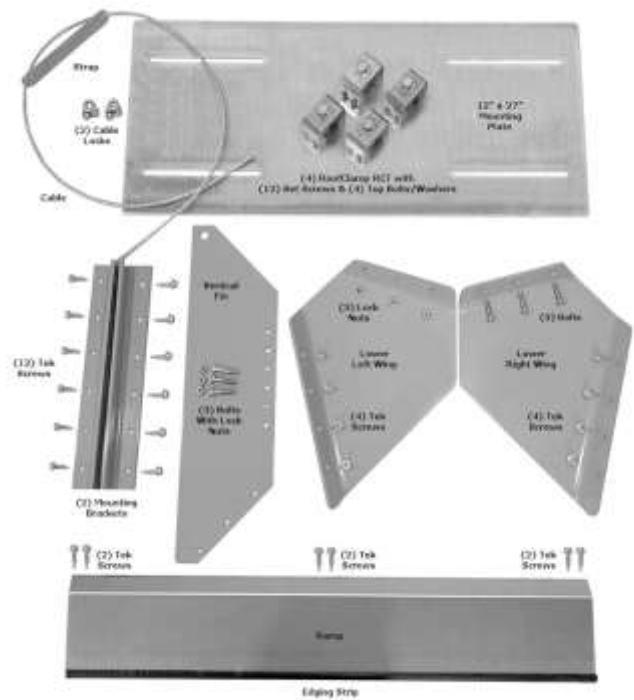5/16" Socket for Cable Clamps
Cordless Drill
Squeeze Clamp

VentSaver Mounting Plate Components

VentSaver SD (Screw Down) Plate   **VentSaver SS (Standing Seam) Plate**

The SS (Standing Seam) VentSaver Extreme Plate Kit Includes:

    (1)   1/4" Adjustable Aluminum Plate – 27" wide
    (1)   1/8" Aluminum Ice Ramp w/ edging strip
    (4)   RCT Universal fit standing seam clamps
   (12) Tek screws – 1/4" x 1" 3/8" hex head
   (12) Set screws for the clamps – 3/16" hex/allen drive
    (4)   9/16" Hex RCT top bolts with stainless washers
    (1)   3/16" Hex bit for set screw tightening

The SD (Screw Down) VentSaver Plate Kit Includes:

    (1)   1/4" Adjustable Aluminum Plate – 27" wide
    (1)   1/8" Aluminum Ice Ramp w/ edging strip
   (12) 3 Inch 1/4-14 Wood Screws w/Neoprene Washers
    (1)   Tube of NovaFlex All Weather Silicone
   (12) Tek screws – 1/4" x 1" 3/8" hex head

1. The two 12" Base Mounting Brackets have 6 holes on each of the horizontal and vertical angles. Mount the Vertical Riser Fin between the two Base Mounting Brackets, Take the Vertical Riser Fin placement into consideration in relation to the Lower Wing Kit to insure there will be enough room on the plate for mounting. The entire Lower Wing Kit must fit on the plate without overhang. **Do not attach the Base Mounting Brackets to the Mounting Plate yet.**

2. Attach the 4 RoofClamp top bolts and washers to the Mounting Plate. **Do Not Tighten RoofClamps or Top Bolts**. The RoofClamp side with the 2 set screws should be run in almost half way to the center of the clamp. The RoofClamp side with the 1 set screw should be backed out enough to slide easily over the seam. To make final torquing easier, make sure the clamps are positioned with the single set screw pointing to the outside edges of the Mounting Plate. Do not torque the set screws or top bolts until step 6.

3. Locate a suitable mounting position on the plate, upslope of the pipe, to ensure that the tip of the Vertical Riser Fin meets the pipe as close to the centerline of the pipe as possible. **(If you will be installing the optional Upper Wing Kit, mount it before proceeding further. The Upper Wing Kit requires the Mounting Plate to be mounted further up the roof to accommodate the 3" flange on the Upper Wing kit.) It can be helpful to use a couple of pieces of wood to prop the Upper Wing Kit in place while mounting.** Be sure that the Mounting Bases are within 3" of the centerline of the Mounting Plate. This allows the 21.5" wide Lower Wing Kit to be mounted properly on top of the plate without hanging over.
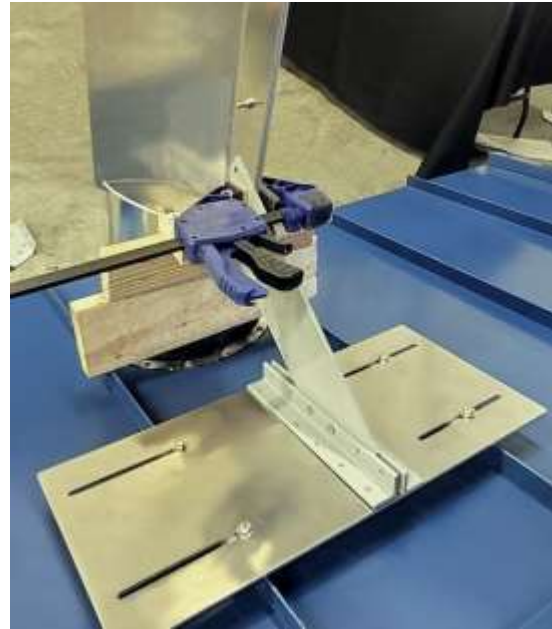
4. Pencil mark the location of the Vertical Riser Fin assembly within Mounting Bracket assembly within 3" of the centerline of the Mounting Plate. Use an 1/8" drill bit to predrill the 12 holes for the securing the Vertical Riser Fin assembly to the Mounting Plate. Install the twelve Tek screws in the predrilled holes.

5. Do not tighten top bolts and set screws yet so the plate can still be adjusted for this step. Attach the Vertical Fin assembly to the pipe or chimney with the supplied cable strap and cable locks. **If installing the Upper Wing Kit, make sure the Vertical Fin overlaps the Upper Wing Kit flange by at least 3 inches to secure 3 bolts into the flange.** It may be helpful to use a squeeze clamp to hold the overlapped parts together.

6. Torque the RoofClamp top bolt and RoofClamp set screws to 90 inch pounds. Depending on the location of your seams, it may be necessary to use an extension to torque the set screws. Make sure that the plate is pressed down on the seam fully as the RoofClamp set screws are tightened.

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7. Check to make sure the upper wing kit is plumb prior to drilling three 1/4" holes for the 3 bolts and locknuts to go through the Vertical Fin and Upper Wing Kit flange.

8. Place the lower wings in place with the 4 -hole flange down against the Mounting Plate and the 3-hole flange resting against the Vertical Riser Fin. Be sure they are positioned toward the rear upslope side of the Vertical Riser Fin so that the entire mounting base of the wings sit on top of the Mounting Plate. There is a right and left side wing, they are not interchangeable. Using the holes in the wings as a template, drill three 1/4" holes through the Vertical Riser Fin where the wings will be installed. It may be helpful to temporarily secure the wings to the Vertical Riser Fin with a squeeze clamp while drilling the holes. Secure with three supplied bolts and locknuts.

9. Predrill eight 1/8" holes for mounting the wings down to the plate using four Tek screws per side. In the event that the lower wing contacts a RoofClamp top bolt, it may be necessary to notch out the wing so it fits flat on the plate. If notching out the wing, a new 1/4" hole can be drilled if necessary to secure the 4th fastener.

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10. **The Ice Ramp installation is vital** to keep ice from sliding under the Adjustable Aluminum Plate and damaging the base of the pipe and/or the boot. Custom cut into as many pieces as it takes to keep the snow and ice from going under the plate. A Sawzall with a metal blade, handheld angle grinder with a cutoff blade, chop saw, or even a simple hacksaw can be used. Take precautions by using gloves and safety goggles to protect yourself from injury while cutting and installing the Ice Ramp. Slide the rubber edging strip onto the custom cut ramp pieces before screwing to the ramp to the plate.

ATTACHING SD (Screw Down) PLATE TO ROOF PANEL

Set plate on high seams just upslope of the pipe or chimney to be protected. Adjust the plate from side to side so that it sits on three seams if possible. On some panels it will only be possible to mount on 2 seams. It will still be necessary the us all 12 roofing screws. It does **NOT** matter if the vent pipe or chimney does not end up centered in the middle of the plate. Mark the seams of the roof panel, where the plate will be mounted, and mark where the 12 holes will be drilled in the plate. **Remove the plate from the panel** and drill (12) 1/4" holes in the plate. There should be 4 evenly spaced holes in the plate for each seam. Before drilling the holes, make a mark where the VentSaver Base Brackets and Lower Wing Kit will be mounted on the plate as shown in step 1 & 2 on the previous page. Before setting the plate back down on the panel, generously apply the included silicone on the high seams between the marks previously made. Set plate down on the panel in the beads of silicone and screw the plate down. The screws are self tapping and should self drill through the panel into a blocking or adequate decking below.

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