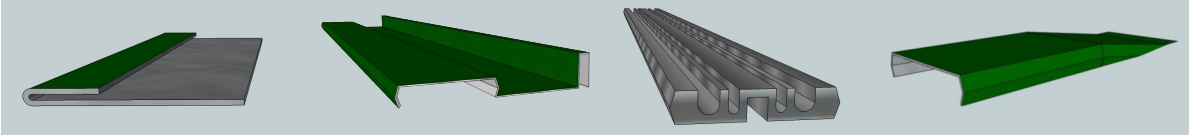




## Installing the Sno-free Standing Seam System for Metal Roofs



SFP – SSP CLIP

SSP – STANDING SEAM  
PANEL

SFP – EXTRUSION

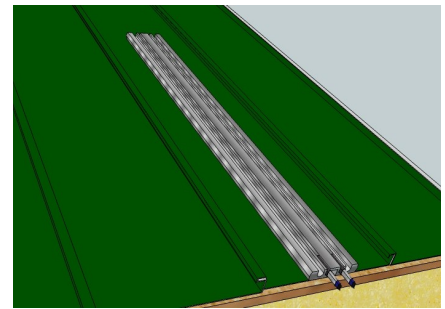
SFP – RAMP

### Step # 1 **Mark the location and Install Extrusion**

Mark the area on the roof to receive the extrusions. Make certain that the extrusion is square between the ribs. This measurement will vary upon the size panel system that you order.

Apply a generous amount of primer (not supplied) to the surface of the roof and the underside of the extrusion to confirm the best possible adhesion. Apply metal bonding sealant to the roof where the extrusion will be installed to ensure proper adhesion of the extrusion to the roof.

NOTE: Cutting the extrusion may be needed depending on the desired length.



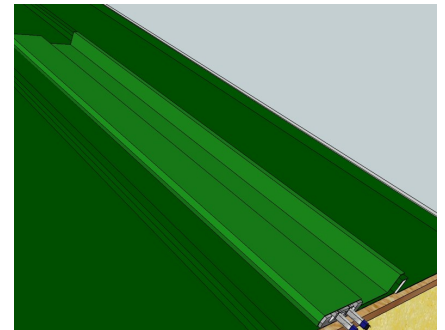
### Step # 2 **Install SSP Panel onto the Extrusion**

Install heating cable or tubing according to specifications and design.

Snap the panel onto the extrusion with downward pressure.

Ensure that the tail flange of the panel fits over or snug against the rib of the metal roof. (Each panel will vary depending on the roof type. The installer must use his/her best judgment on the installation of the panel.)

Remove all plastic from the metal prior to the next step.

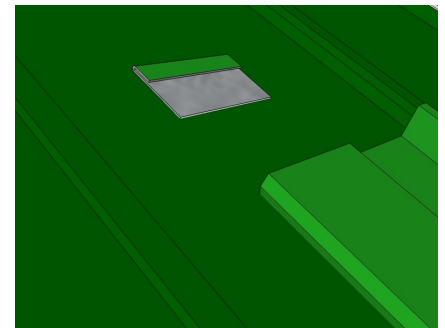


### Step # 3 **Install the SSP-Clip**

Properly measure and mark the location of the Ramp Clip above the finished section of the SSP Panel. Remove the plastic on the metal prior to adhesion.

Properly adhere the clip to the metal roof using the correct primer and adhesive. If screws are used, properly seal all penetrations.

NOTE: For added protection, we recommend a bead of sealant along the back of the clip to direct water to either side of the clip.



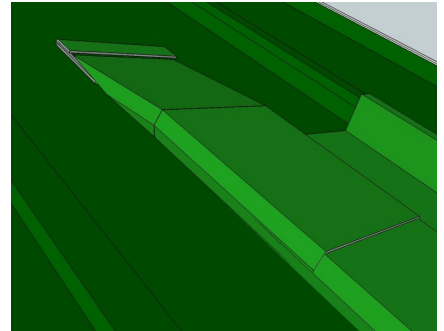
## Installing the Sno-free Standing Seam System for Metal Roofs

### Step # 4 **Attach the Ramp**

Insert the tab on the ramp into the recently installed clip. Apply sealant inside the clip in order to hold the ramp securely.

Apply a generous amount of sealant on the bottom of the ramp where it will meet with the extrusion and the SSP Panel. Put downward pressure to snap the ramp over the extrusion and the SSP Panel.

Remove all protective plastic on metal prior to the next step.

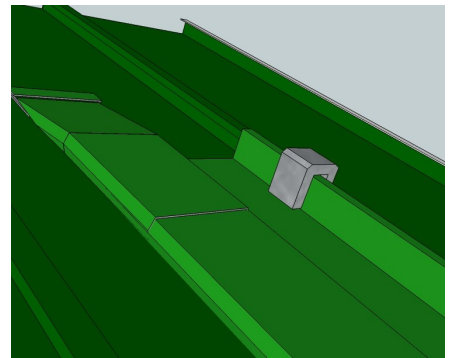


### Step # 5 **Install Clamps**

Firmly attach the panel to the rib of the standing seam roof.

Use non-penetrating clamps that are designed to work with the type of seam that is associated with your standing seam roof.

If penetrations are made with screws or rivets due to a lack of usable clamps, seal all penetrations properly.

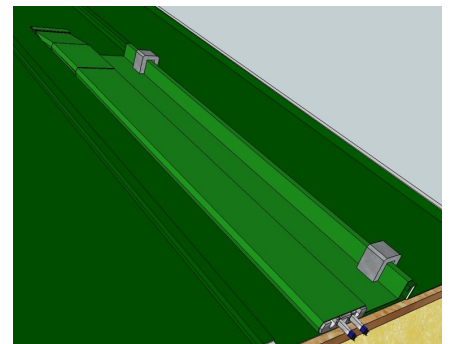


### Step # 6 **Finalize the system**

Install adequate quantities of clamps on all panels.

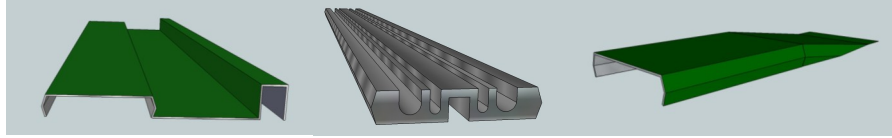
Leave a 1" Excess of SSP panel overhanging the extrusion to cut and bend down to cover the end of the extrusion. Any areas where the wire enters and exits the panel should have a generous amount of sealant placed to protect the jacket of the heating cable from any sharp edges of the metal.

If there is no excess available to fabricate an end seal, Contact Heat Trace Specialists for Expansion Joints to cut and fabricate end seals on site.





## Installing the Sno-free Standing Seam System for SnapLock Metal Roofs



SSP – STANDING SEAM  
PANEL

SFP – EXTRUSION

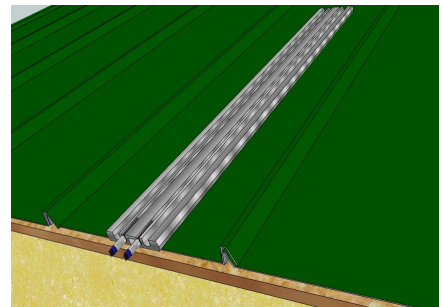
SFP – RAMP

### Step # 1 **Mark the location and Install Extrusion**

Mark the area on the roof to receive the extrusions. Make certain that the extrusion is square between the ribs. This measurement will vary upon the size panel system that you order.

Apply a generous amount of primer (not supplied) to the surface of the roof and the underside of the extrusion to confirm the best possible adhesion. Apply metal bonding sealant to the roof where the extrusion will be installed to ensure proper adhesion of the extrusion to the roof.

NOTE: Cutting the extrusion may be needed depending on the desired length.



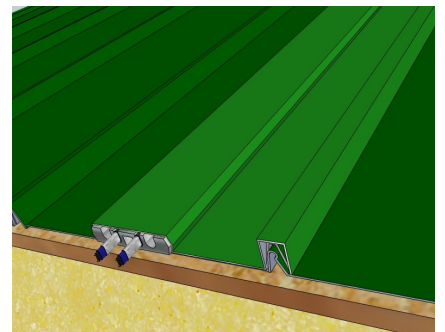
### Step # 2 **Install SSP Panel onto the Extrusion**

Install heating cable or tubing according to specifications and design.

Snap the panel onto the extrusion with downward pressure.

Ensure that the tail flange of the panel fits over or snug against the rib of the metal roof. (Each panel will vary depending on the roof type. The installer must use his/her best judgment on the installation of the panel.)

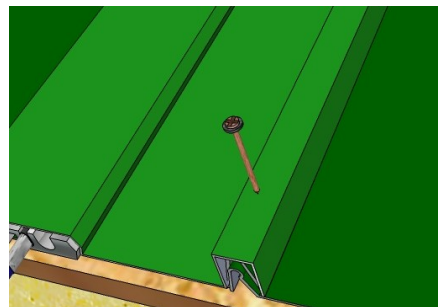
Remove all plastic from the metal prior to the next step.



### Step # 3 **Attach the SSP Panel onto the Roof**

Properly measure and mark the location where each attachment screw will be located. Pre-drill each hole to ensure the screw will enter straight through the top of the existing rib.

NOTE: For added moisture protection, we recommend a sealant injected into the pre-drilled hole before the screw is inserted.



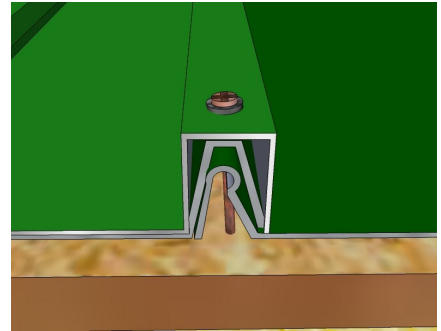
## Installing the Sno-free Standing Seam System for SnapLock Metal Roofs

### Step # 4 Ensure proper screw penetration

As described in the picture to the right, confirm the screw has penetrated the top of the rib without being inserted on an angle and penetrating the cavity of the existing metal roof.

We suggest using a minimum 1 1/2" Self-piercing screw with neoprene washer in order to firmly attach into the roof deck.

Length of screw will be determined by the height of the rib.

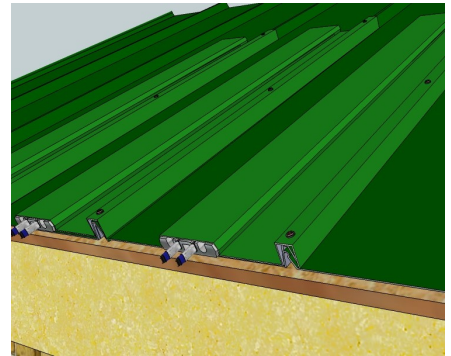


### Step # 5 Install remaining screws and panels

Once each panel is firmly attached, ensure the cable is properly protected and secured wherever it is outside of the extrusion.

Where two panels meet, we recommend overlapping the panels for proper water drainage.

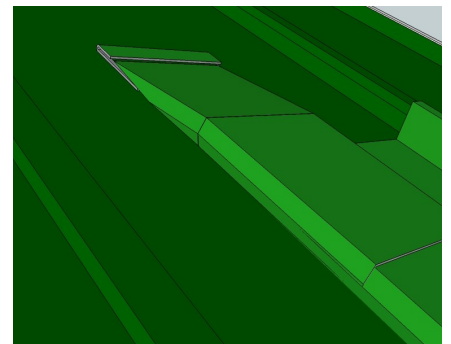
Use the SFP-4V-E-XJ Expansion joint cover over the extrusion portion of the panel and firmly secure with sealant.



### OPTIONAL PRODUCT

If the SSP panels are being installed on only a portion of the roofing surface then we suggest to use our SSP-RAMP.

For more information on installing this Ramp: Refer to the installation manual on the section "Installing the Sno-Free Standing Seam System for Metal Roofs" on Diagram #3 and #4.



### End Cap installation

A simple relief cut on the sides of the panel or expansion joint and bend on the bottom of the panel can easily protect the look of the finished product.

If the cable is making its entry at the bottom as shown in the diagrams, then secure the loose cable with our Belt Loop Clips along the drip edge or fascia.

If the cable is making its entry at the top, then cut the extrusion short from the Drip edge, Make the loop in the cable leaving enough space for the panel to cover the extrusion and the looped cable within the finished end cap.

Leave sufficient space between the cable and any sheet metal edges to ensure protection of the cable.



### **Tools Needed:**

- **1)** Radial arm saw or “chop saw” to cut the aluminum extrusions. A 100 tooth carbide tipped saw blade is suggested. **2)** Metal shears or “tin-snips”. **3)** Use the appropriate metal cutting blade to trim the cladding (sheet metal) as needed. **4)** Hand and/or powered screwdriver(s) with the appropriate tip(s) for the attachment screws to be used. All screws should be the flush head type (Pan Headed) for best results. **5)** A folding bar to create or modify any bends. **6)** Safety Glasses and/or any other safety equipment needed. **7)** Use all ladders in a safe & responsible manner and avoid overhead power lines.

### **LEGAL DISCLAIMER:**

- This installation manual shows the best known method of installation at the time of the writing of this document. Heat Trace Specialists recommends all parties that install these systems to use their best judgment on common roofing and sheet metal installation methods. We only guarantee the product material supplied by Heat Trace Specialists.
- Heat Trace Specialists designed this system for certified and qualified contractors and any other licensed construction professionals. Any professional installer of these products understands that any property damage from water that entered through any penetration from the system will not hold Heat Trace Specialists or any affiliate liable for expenses or damages. All penetrations into the deck of the roof must be properly sealed and covered.
- All installers of Heat Trace Specialists’ products are legally required to install all products according to local, state and federal laws and codes.
- While installing Heat Trace Specialists’ products use all protective gear and proper tools that are recommended in electrical installation and in the construction industry. Heat Trace Specialists is not liable for any product that is installed incorrectly or damaged during the installation process.
- Because roofs and buildings are all different, Heat Trace Specialists recommends you use your best judgment when installing our products to achieve the best possible results for appearance, safety, and effective operation.
- Heat Trace Specialists does not offer instructions for every aspect of the installation process, we only offer the basics and we rely on the common knowledge and ability of the final installer to find the proper method of installation within their own industry and according to their local codes. Any installer should be trained in working with sheet metal and capable of finishing all parts and connections with the best of their ability and workmanship capabilities. Heat Trace Specialists does not warranty any workmanship of said installers and hereby is exempt from all liability.
- If any panel is being installed in an area with high winds. A few self-tapping screws can be installed on the nose of the system per section and end caps to ensure minimal damage does occur.
- Heat Trace Specialists products must be installed, operated and maintained in accordance with Heat Trace Specialists instructions. Heat Trace Specialists is not liable for damage or unsatisfactory performance of products resulting from accident, negligence, alteration, unauthorized repair, improper application or installation of the products. Heat Trace Specialists is not liable for any incidental or consequential damages.
- SELLER WILL IN NO EVENT BE LIABLE FOR ANY DIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOSS OF USE OF PURCHASER’S FACILITIES, LOSS OF REVENUE, LOSS OF PROFITS AND CLAIMS OF ANY CUSTOMERS OF PURCHASER, AND SELLERS LIABILITY UNDER NO CIRCUMSTANCES WILL EXCEED THE CONTRACT PRICE FOR THE GOODS FOR WHICH LIABILITY IS CLAIMED.