

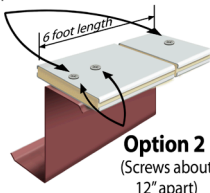


The preferred installation method, one man in a man basket, installing the SNS Thermal Spacers ahead of the roofing crew (option 1) or can be installed on the go as insulation and roof sheets are installed (option 2).

Each thermal spacer comes in six-foot lengths which are the standard widths of three Standing Seam Roof panels and the typical widths of a metal building insulation roll, making the thermal spacer easy to handle and install.

Option 1

(A Screw on each end)



Option 2

(Screws about 12" apart)

Each thermal spacer comes with two flat-head screws to hold the six-foot thermal spacer in place. (210 flat screws will be provided for 100 thermal spacers).

Suggestions:

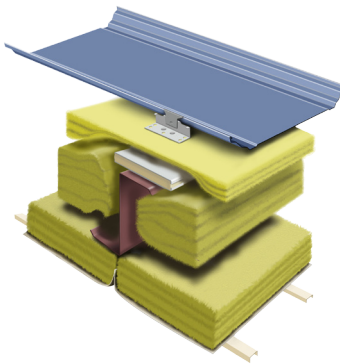
- When installing the thermal spacers, center it over the flange of the purlin
- Butt the thermal spacers end to end without adding pressure
- Consider the placement of the flat-head screws through the thermal spacer, so that the SSR Panel Clip Screws are not in conflict with the flathead screws
- When installing the insulation blankets, install to industry standards to allow for full expansion of the fiberglass

Step 1:

Install SNS® Purlin Struts between purlins if needed. (See instructional guidelines for more information)

Step 2:

Thermal spacers are placed and centered over the top of the purlins and are attached by two #12 flat head screws. (*Option 1*) screw the flathead screw at each ends. (*Option 2*) screw the first flathead screw at the end and the second screw around 12 inches from the first.



SSR Panel Clip

Suggestions:

- Only use clips that are ¼" taller than the profile of the panel
- Standing Seam clips should not be located over the joints of the thermal spacer
- Installing the SSR Panel Clip in the center to ensure the clip screws are screwed through thermal spacer and into the purlin flange below
- Use a longer screw to fasten the SSR Panel Clip through the thermal spacer and into the purlin flange below. (SNS recommends #14 or larger diameter screw and is 1" in length)

Step 3:

Place the insulation blanket over the thermal spacers and attach the SSR Panel Clip on top of the insulation blanket and centered over the thermal spacer. The SSR Panel Clip will be fastened through the insulation blanket and the thermal spacer to the purlin flange, for a tight connection. Complete the additional steps of the standing seam roof as to manufacturers specifications.

The assembly process is like a typical standing seam roof. The only additional step is to set the thermal spacers in place with two flat-head screws and attach the standing seam clip through the thermal spacer and to the purlin flange.

Before beginning installation of the SNS Suspended Full Cavity Insulation System, consider the following items to determine which works best for you.

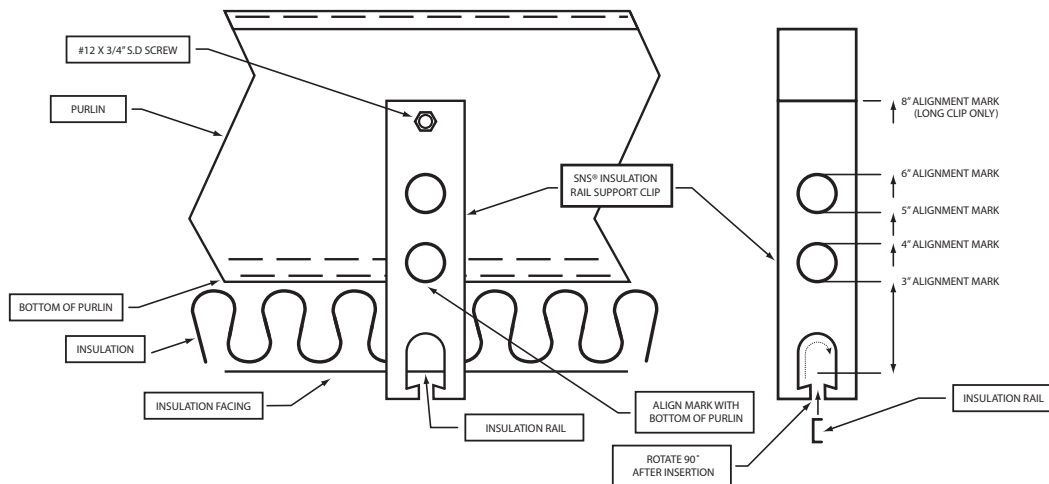
- Layout for Clips on the ground while purlins are in a bundle (Saves Time)
- Layout for Clips after purlins are in place on the roof (Requires more time)
- Have your building supplier pre-punch holes according to the layout you need (May cost more)
- Install Clips on the ground before purlins are lifted in place.
Remember to avoid interference at purlin laps. (Saves time but requires careful handling of purlins one at a time to lift in place)
- Install Clips from a man basket after purlins are in place (Requires more time. Can be done as insulation rails are installed)

Conditions on your jobsite may dictate which of the above options above you wish to engage. Please note that SNS suggests you place an SNS Insulation Rail about 4 to 6" from frame web at bay ends to support a clean neat termination. Be sure to consider that in your layout. Also, maximum spacing of SNS Insulation Rails is 30" OC

Suspended System

Step 1: Layout and install the SNS Support Clips and purlins. If any other trades are involved in your project, have them install any other bracketry for HVAC, lighting, etc. before the insulation is installed.

Step 2: If purlins are straight, install the insulation rails. Rotate the rail with web in vertical position, slide it up into the clip, rotate it 90 degrees to point flanges downward, and pull down into position toward the bottom of the clip. At joints in the support rail, nest the ends together and install together.



Step 3: Place the lower faced blanket (from the roof top) through the purlin cavity down onto the support rails only in the purlin spaces that will receive the SNS Purlin Strut. (If the SNS Purlin Struts are not used, go ahead and install all of the lower blankets.)

Step 4: Install the SNS Purlin Struts over top of the lower insulation blanket, place and tighten all bolts.

Step 5: Install the remainder of the lower insulation blanket. At bay ends, cut away the insulation evenly the frame, leaving the facing to lay around the end of the blanket and up over the frame flange. The cavity fill blankets will lay over top of the facing. This will make a neat clean termination and should not require further process.

Step 6: Install the rest of the insulation between the purlins. Add thickness layers as needed.

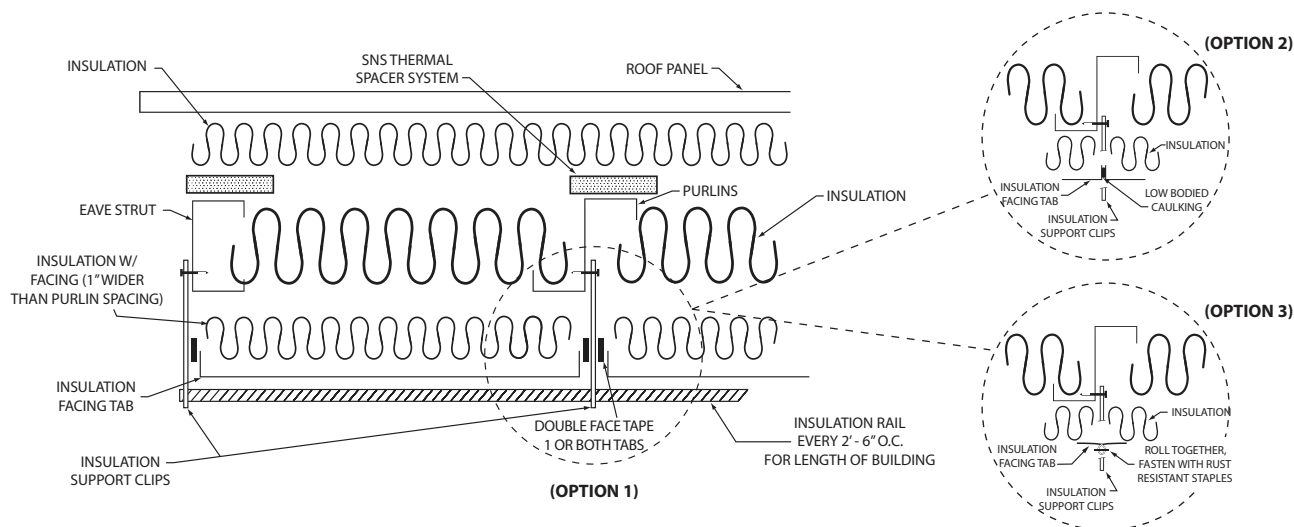
Step 7: Install the SNS Thermal Spacers.

Step 8: Install the top 3 or 4 " unfaced layer over top of the SNS Thermal Spacer and install the roof system as you go.

Sealing The Vapor Barrier

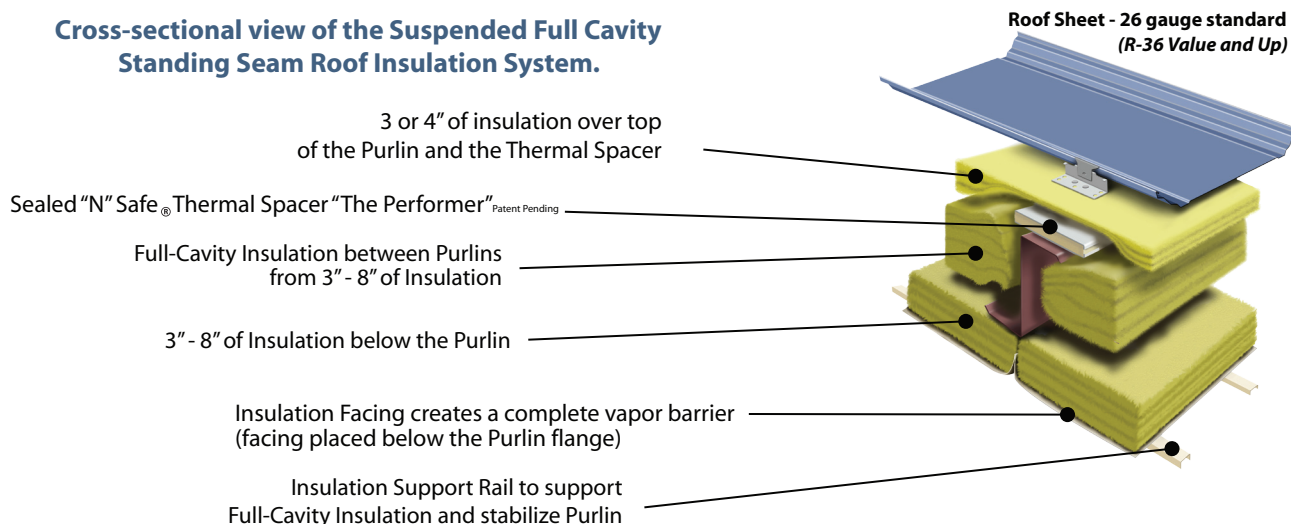
In most cases, the insulation joints parallel to the purlins need to be sealed off and air tight, especially in cold or humid climates. We suggest these methods to accomplish that.

1. Have your insulation supplier apply "Double Face Tape" to the outside of 1 tab only. Ask for a heavier or stronger protective layer to prevent tearing during its removal. Install with the facing tabs upward. Keep tabs as short as possible (2" Max) to maintain the best insulation performance. During installation, you will want the "taped" side of the insulation roll to be on the downslope edge of the insulation blanket. This will eliminate interference with purlin flanges, clips and other bracketry while removing the tapes protective paper layer.



2. Once the entire roof is completed, use a low bodied caulk to seal between the facing vertical joints. Most sili cone based caulks are light bodied. Make sure the caulking is compatible with the insulation facing.
3. Pull the taps downward, roll them together, and staple together. This option may not have as neat an appearance as option 1 and 2.
4. You may have an idea of your own. The goal is to seal the joints.

Cross-sectional view of the Suspended Full Cavity Standing Seam Roof Insulation System.



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