



ThermaSeam Installation Manual

ThermaSeam is specially designed to mitigate ice dams on standing seam metal roofs. The panels ensure compression and maximum heat transfer between the heat cable and the metal roof. Our self-regulating cable will decrease energy usage after the snow and ice melts and is drained away. This is beneficial for high snow load regions that have excessive, consistent snowfall.

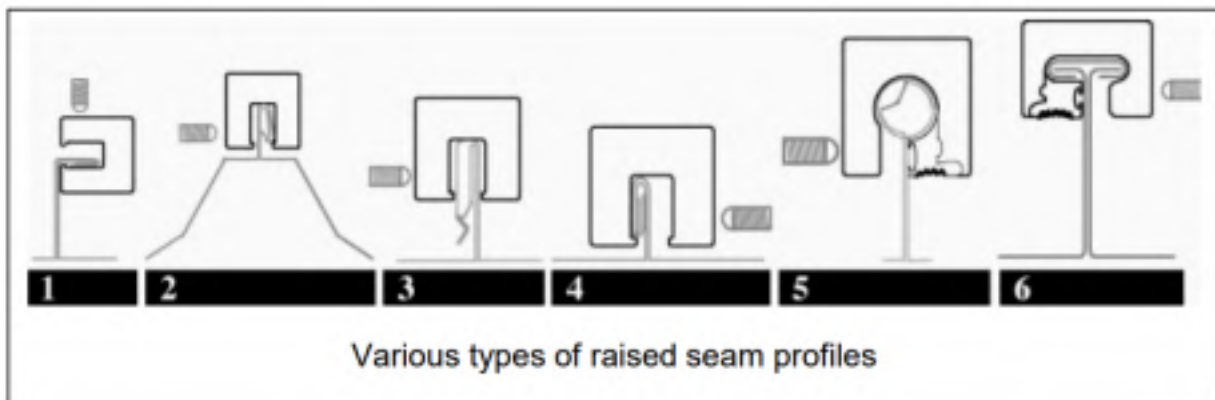
The L-shaped cable cover shown in the figure shown below is similar to a 90 degree vertically bent flashing. The low profile design can almost always be color matched to the metal roof to keep a clean curb appeal. Double runs on each or every other raised seam can melt a very large volume of snow and ice (12+ inches on either side of the seam).

This manual provides a step-by-step guide for technicians to ensure a smooth and efficient installation.

Required Tools and Components

- Speed Square/Putty Knife/Chisel
- Handheld Metal Snips
- Drill with 1/4 hex bit
- Vice grips (optional)
- ThermaSeam Panels
- Seam Clamps
- Heat cable
- Power connection kits
- End seals
- Splice kits (as needed)

SEAM PROFILES/HEIGHTS MUST BE NOTED IN FINAL ORDER TO CONFIRM APPROPRIATE THERMASEAM HEIGHT AND CLAMPS FOR YOUR INSTALLATION
Standard seam profiles are listed here. Custom options are available as well.





ThermaSeam Installation Instructions

1. Install complete runs of ThermaSeam on both sides of every seam or both sides of every other seam as indicated by the project takeoff. ThermaSeam can also be installed on one side of every seam on long runs that are individually connected to power. These three configurations avoid having additional cable exposed to the elements.
2. Install one clamp near the bottom of each 5 foot increment of product, and another near the top of the same length, repeating as you go. Leave the clamps slightly loosened for easier insertion of heat cable.
3. Install the heat cable up one side of the seam and use a padded cable loop to protect the cable as you take it over the seam, back down the ThermaSeam and underneath the drip edge, repeating the process on additional seams until the run is completed and ready to be connected to power (by a licensed electrician).

Suggestion: ThermaRail can be included in the design to affix the connecting wire under the drip edge for additional heat compression and curb appeal.

4. Tighten the clamps once the runs are completed to ensure maximum heat transfer and tape protection.
5. Have your licensed electrician connect your ThermaSeam to power!



Electrical Best Practices

- Only a licensed electrical contractor should power up the system. The electrical connections and end seals require an experienced contractor.
- Details of the electrical installation in this document are brief and do not cover the many variables encountered in the field.
- More information is available in the ice melt cable manufacturer's installation instructions provided with the ice melt cable.
- The cold start-up current load after a power failure should be considered in the design phase of the project. In all cases, the UL approved ice melt cable manufacturer's instructions over-ride the ThermaShingle Installation Instructions.
- At low temperatures, the startup current of self-regulating ice melt cable can be quite large. Consult the ice melt cable manufacturer's maximum cable length data charts for additional information.
- EPD ground fault breakers with 30 ma trip points must be used, as per Article 426.28 of the NEC.

Final Inspection Checklist

- ThermaSeam panels are properly affixed to the existing roof valley.
- Clamps applied at the appropriate intervals.
- Ice melt cable is correctly measured, cut, and tucked into the ThermaSeam raceway.
- The metal raceway is properly folded over the cable for protection.
- For additional support such as project quote, layout and bill of materials, contact your supervisor. If further assistance is needed, consult ThermaLine FAQ.
- If the above is insufficient, please email ThermaLine for troubleshooting the installation at: service@thermaline.us.