

ThermaValley Installation Guide

The ThermaValley panel system was designed by ThermaLine to provide a clean melt path for snow and ice in problematic roof valleys, extending the longevity of your customer's roof. This extremely low profile design lays flat in a valley and has color choices to match the design of the residential or commercial roof. This manual provides a step-by-step guide for technicians to ensure a smooth and efficient installation.



Required Tools and Components

- Putty Knife/Steel Scraper
- Handheld Metal Snips
- ThermaValley panels
- Heat cable
- Adhesive
- Power connection kits
- End seals
- Splice kits (as needed)

Part 1: Placement & Panel Installation

1. Before installation, cut ThermaValley runs to length at the job site with hand held shears.





NOTE: It is important to dress the entry and exit points of the raceway to ensure a smooth, dull edge. Any burrs or sharp edges can cut the protective sheath of the cable, allowing moisture in.

2. Flip the ThermaValley panel over to the unfinished side and apply adhesive in inch-wide dollops every 6–12 inches along the panel's backside.
3. Flip the panel back over so the finished side is up and lay on top of the existing shingles or on top of metal panels. Affix the panels in the existing valley running downward to the roof's edge.



5. Ensure all panels are face-up with the raceway visible and extending outward for cable insertion, inspection, or replacement per NEC Article 426.

Part 2: Prepping Cables & Insertion

1. Adjust the raceway before insertion so that cables can fit inside. We recommend using steel scrapers, square edges, or pliers to slightly open the raceway.
2. Insert the heat trace cable into the horizontal open slot along the length of the ThermaValley raceway.
 - Be sure to avoid cutting or piercing the outer plastic sheath of the ice melt cable. If water leaks into damaged cable it can cause a slight ground fault condition, tripping the EPD ground fault circuit breaker (required for all installations).
 - We recommend wrapping the ends of the cable with waterproof electrical tape to prevent water damage during installation
3. After placing heat trace cable in the raceway at the bottom of the panel, secure it by folding the metal back over the heat trace cable with pliers. This will protect cables from weathering.



Electrical Hookup 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

- ThermaValley panels are properly affixed to the existing roof valley.
- Seal Bond 105 adhesive has been applied at the appropriate intervals.
- Ice melt cable is correctly measured, cut, and inserted into the ThermaValley raceway.
- The metal raceway is properly folded over the cable for protection.
- For additional support such as project quote, layout and bill of materials, contract 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