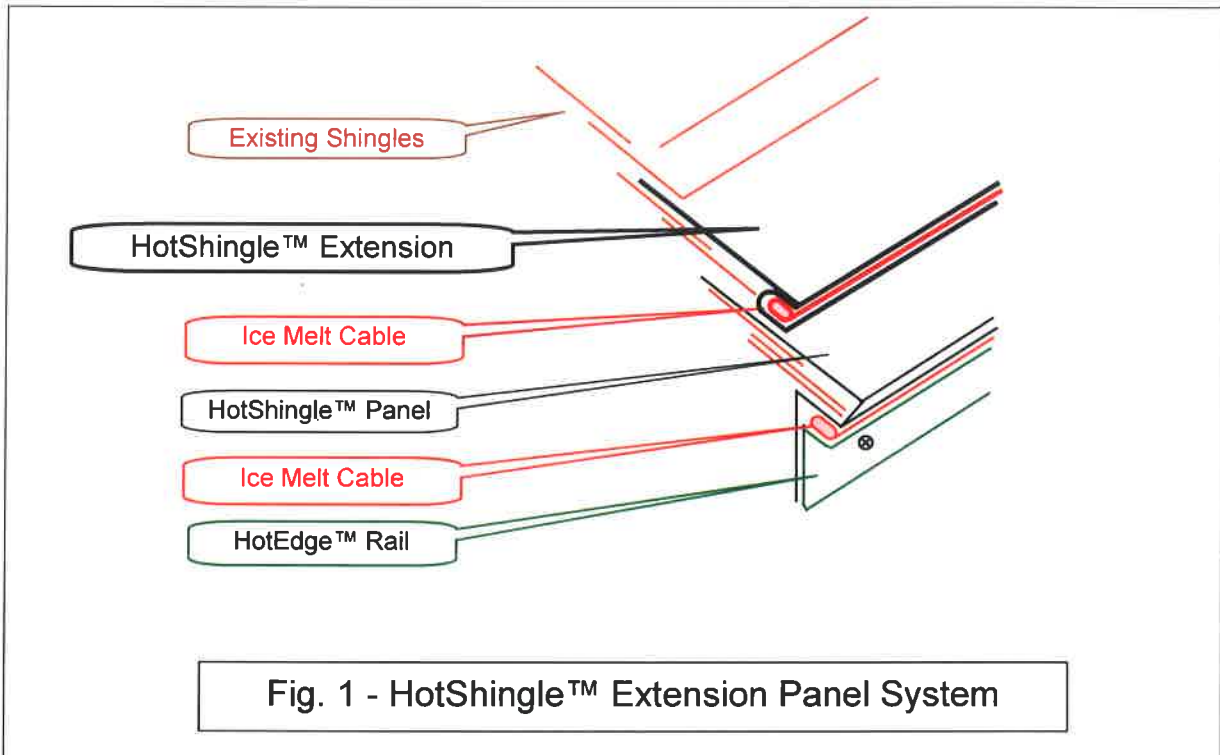


## HotShingle™ Extension – Installation Instructions

Hot Edge, Inc.

[www.HotEdge.com](http://www.HotEdge.com)



### HotShingle™ Extension & Transition Panels

Part of the HotEdge™ Ice Melt System

Note: The HotShingle Extension **Design Guide** provides important additional information. Additional information on the ice melt cable can be found in the HotEdge Rail™ Installation Instructions. These documents can be accessed at [www.HotEdge.com](http://www.HotEdge.com)

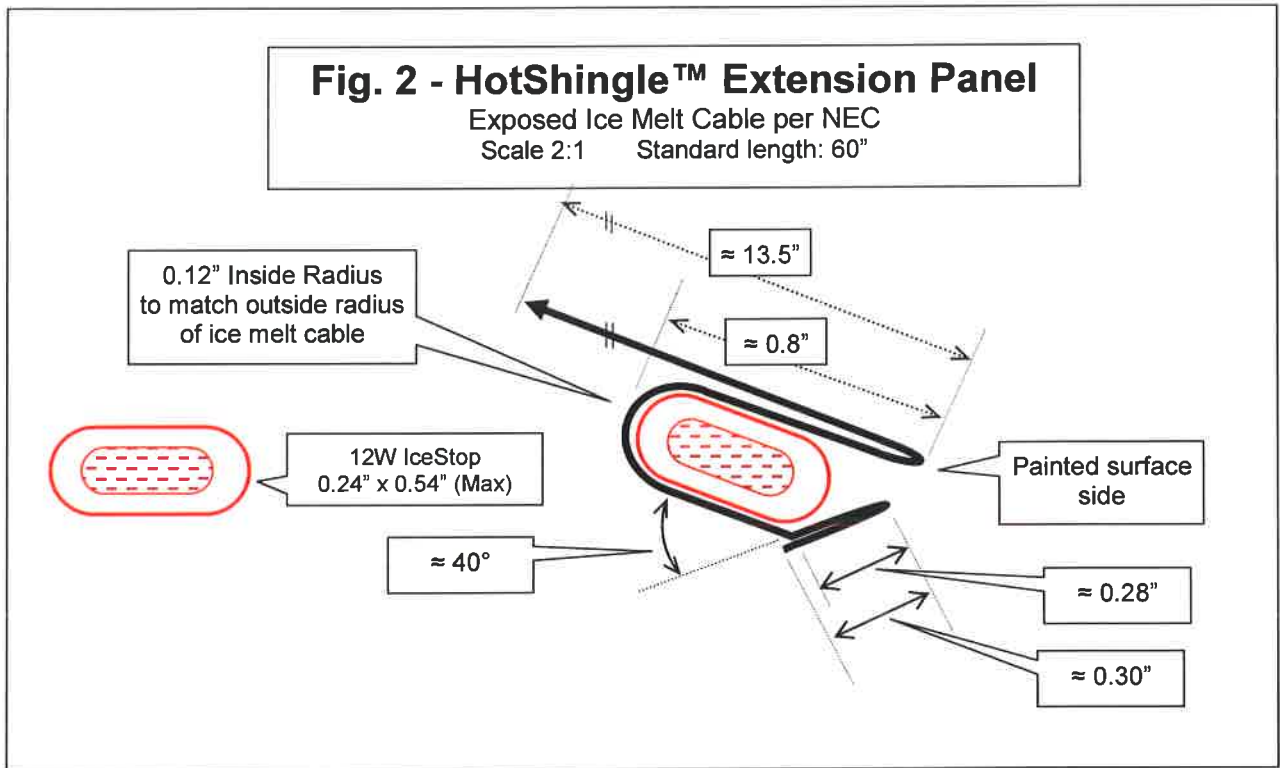
The HotShingle™ Extension Panels are designed to increase the up-roof melt back distance of the HotEdge™ Rail and HotShingle™ Ice Melt Systems on most standard shingled roofs. In high snow load regions, roof ice melting should be provided at least one foot up-roof from the outside wall.

In the typical installation, an additional two rows of shingles can be covered with the heated Extension Panel for extended cold roof overhangs.

Further up the roof, past the inside wall, normal ice and snow melting will occur due to the heat escaping from the interior space of the building below the roof. The objective is to provide a heated melt path for this up-roof ice melt water until it can be drained away from the cold roof overhang and the structure's foundation. Normally, heated gutters and downspouts would be part of a complete system.

## Section 1

### HotShingle™ Extension Panel

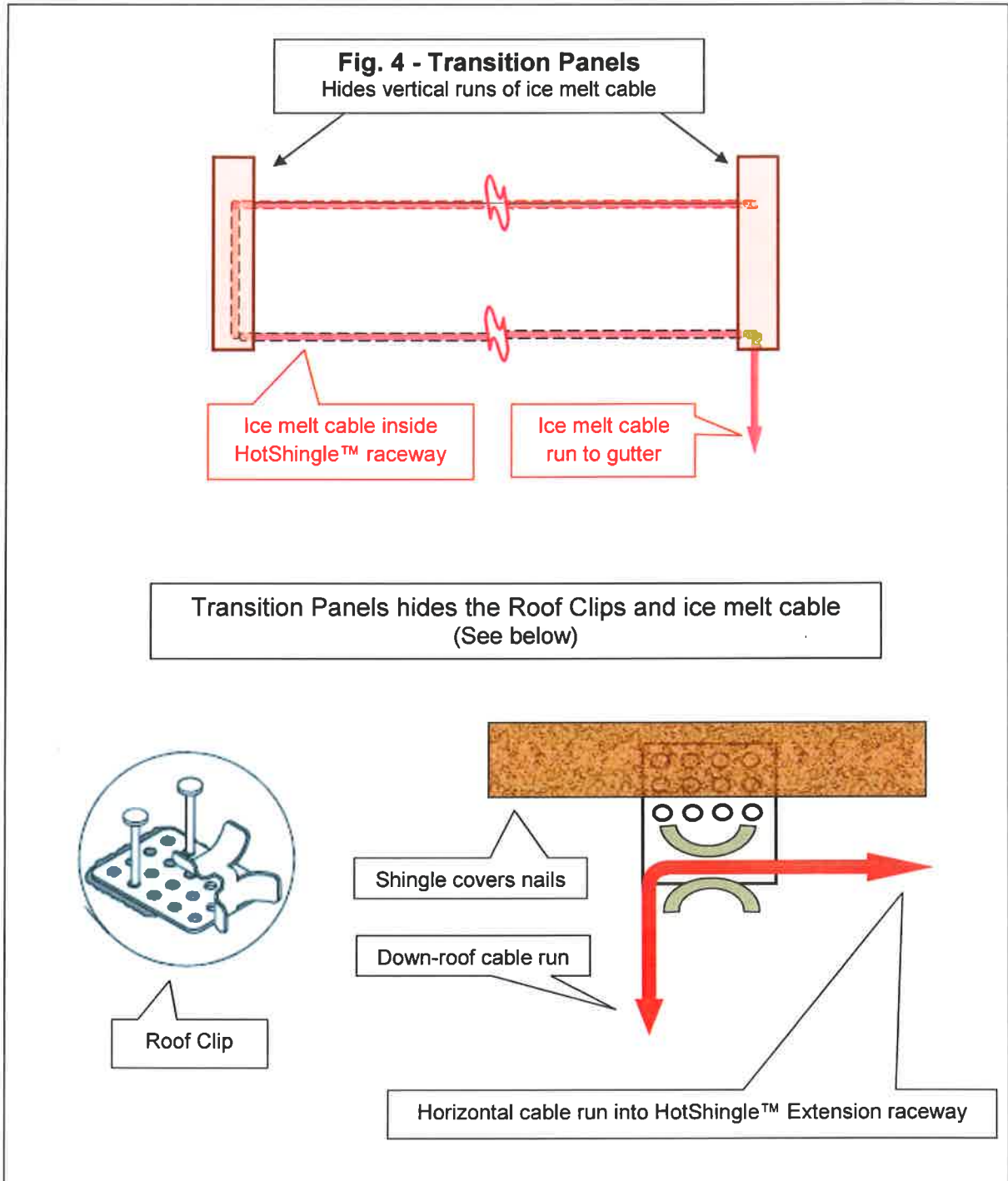


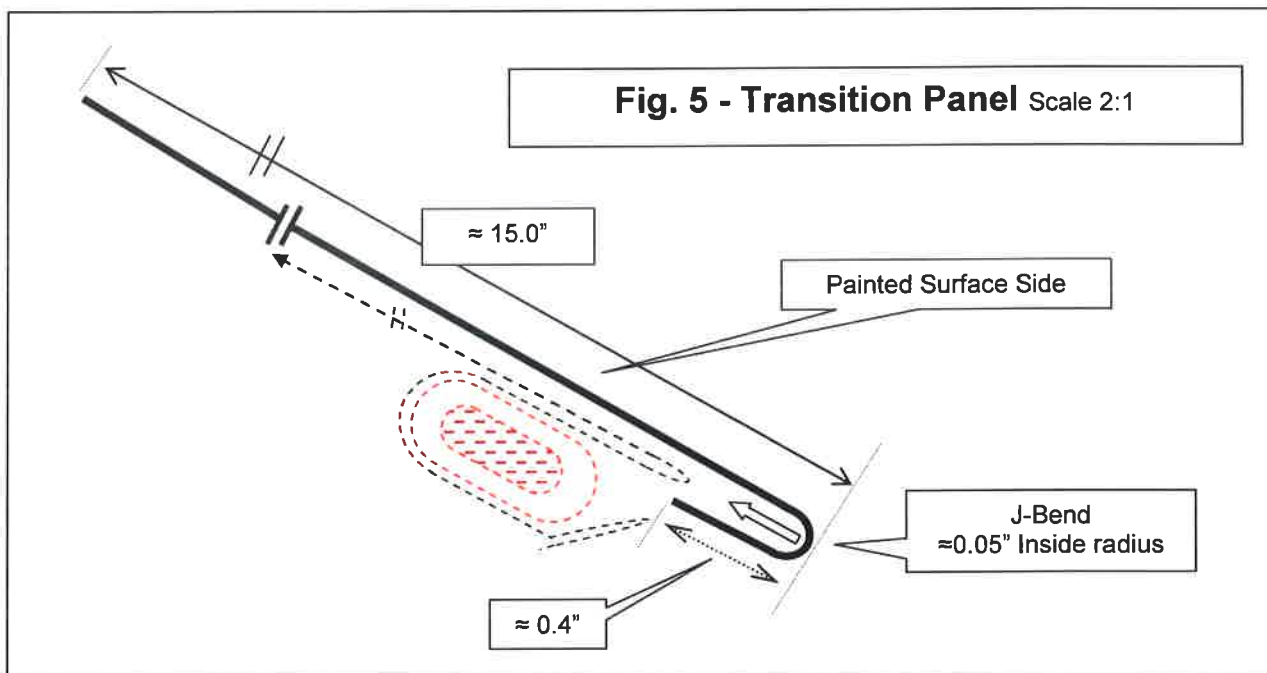
### HotShingle™ Extension Panel – Installation Instructions

- 1) The panels can be cut to size at the job site. Always dress the cable raceway entry and exit points so that the cable is not damaged by any sharp edges or metal burrs. The metal edge can be bent slightly to offer a smooth edge surface.
- 2) Slightly lift the existing shingles at the insertion points and slide the top of the panel into place.
- 3) On a given horizontal row of HotShingles™, space the Panels 1.5 inches apart to provide for expansion, drainage and the installation of Roof Clips.
- 4) Between the panels, install the Roof Clips to support the ice melt cable in the one inch gap between panels.
- 5) Insure the lower raceway that will contain the ice melt cable (Fig. 1 and 2) rests below the shingle and on the surface of the lower HotShingle™ Panel. The heat from the cable will heat both the up-roof metal of the HotShingle™ Extension Panel and the lower HotShingle.
- 6) For additional up-roof melting, the process repeats for additional up-roof rows of HotShingle™ Extension Panels.
- 7) Use screws or roofing nails under the up-roof shingles to secure the top of the HotShingle™ Extension Panels and the Roof Clips. Seal this hardware with roofing calk.
- 8) The ice melt cable is inserted in Section 2.

## Section 2

### Transition Panels





The 4" wide Transition Panel fits over the 1.5 inch gap between the Extension Panels to allow for Panel expansion and also covers the up/down ice melt cable transition loops at each end of the HotShingle™ Extension runs. These cable loops can be run up-roof for additional Panels or down-roof into the gutter or for power feed for a complete heated drain path.

Note: The HotValley Raceway may be used in place of the Transition Panel to cover the exit and entry points of the ice melt cable if required for a better look. For example, in a valley that requires an angle cut of the HotShingle™ Extension Panel. In all cases the ice melt cable needs to be retained with a Roof Clip so that sliding ice and snow does not pull the cable out if the raceway.

### Transition Panels – Installation Instructions

- 1) Slide the Roof Clips (Fig. 4) under upper shingle and positioned so that the Roof Clip retention cavity for the ice melt cable is in line with the cable entry point of the HotShingle™ Extension Panel. These Roof Clips are also used to support the ice melt cable in the 1.5 inch gap between panels.
- 2) Attach the Roof Clips with screws or roofing nails. Seal with roofing calk. These Roof Clips will retain the ice melt cable at the up/down angle bend points (Fig. 4).
- 3) Install the ice melt cable into the Extension Panel raceways and Roof Clips (Fig. 4).
- 4) Bend the Roof Clips around the ice melt cable to secure the cable.
- 5) Slide the Transition Panel under the up-roof shingle and the bottom J-bend under the Extension Panel bottom metal flange (Fig. 5).
- 6) Use screws or roofing nails under the up-roof shingles to secure the top of the Transition Panel. Seal this attachment hardware with roofing calk.

## The HotEdge™ Rail — Roof Ice Prevention System

The UL Listed, HotEdge™ Rail System creates a three-sided raceway that holds a single run of self-regulating ice melt cable firmly against the bottom of the metal drip edge of most structures. This patent pending open raceway design conforms to the NEC (National Electrical Code) Article 426 and provides access for insertion, inspection and replacement of the ice melt cable. The heat generated by the ice melt cable is directly conducted to the top of metal drip edge. This helps prevent icicles and ice dams from forming in this critical area. The snow and ice melt water is not permitted to re-freeze at the drip edge and it can be safely drained away from the structure.

Some roofs will require the addition of a metal drip edge or a metal slip sheet (snow slide) that can be heated. Hot Edge Inc. manufactures the HotSheet™ and the HotShingle™ products that provide the critical metal drip edge that the System requires.

Additional products are offered (e.g. HotValley™ and HotFlashing™) to maintain a heated drain path for the ice melt water until it can be safely drained away from the foundation of the structure.

**Warning: In all cases, a metal drip edge must be present for the HotEdge™ Ice Melt System to operate safely and successfully. Only self-regulating ice melt cable supplied with the system can be used. Low cost constant-current heating cable is a fire hazard and cannot be used.**

The ice melt cable manufacturer's installation instructions are provided with the cable. These procedures must be followed. Installation personnel must be skilled in the art and be aware of the dangers inherent in this type of construction work. This product is designed to be part of a complete roof structure. Only experienced professional contractors should install this product.

Consult with a licensed electrical contractor for the electrical system layout, junction box placement, maximum cable run lengths and power feed requirements with EDP breakers as defined by the National Electrical Code (NEC), local building codes and the ice melt cable manufacturer.

Completely read and understand these documents before starting the project.

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