

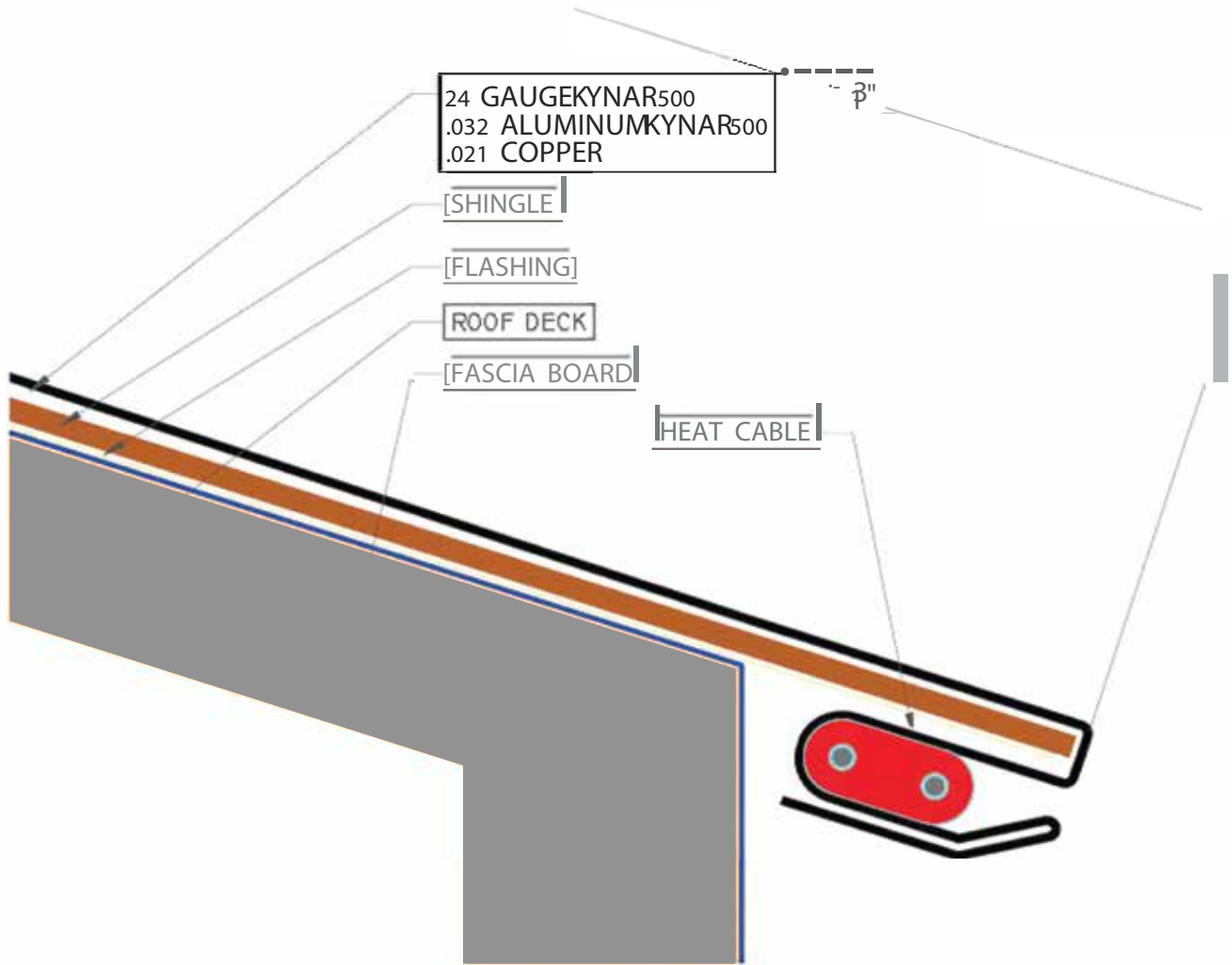
HotShingleLOK - Installation guide

INTRODUCTION

The HotShingleLOK

™ is a patent pending metal roof edge specifically designed to be a one-piece design to simplify the installation process on all asphalt composite shingle roof edges with or without gutter systems. The HotShingleLOK™ roof ice melt system prevents icicles and ice dams from developing where most develop; the roof edge. The HotShingle2X and 3X are available and engineered for extreme applications when a minimum of 20 inches additional melt back from roof edge is needed.

The HotShingleLOK™ is a HotEdge® LLC exclusive design that incorporates a three sided raceway engineered specifically to secure and maintain a commercial grade UL Listed self-regulating heat trace cable for a direct heat transfer to a metal roof edge. HotShingleLOK™ slides between the second and third rows of the existing asphalt composite shingles. HotShingleLOK™ is available in Natural Copper, Kynar 500 Aluminum and steel. Instruction video outlining installation process can be found at www.hotedge.com.



IMPORTANT INFORMATION:

HotShingleLOK™ roof ice melt system is designed and engineered with a three-sided built-in raceway developed to hold a commercial grade self-regulating heat cable firmly in place over most shingles. This patent pending open raceway design conforms to the NEC (National Electrical Code) Article 426 and provides access for insertion, inspection and replacement. The heat generated by the heat trace cable is directly conducted to the metal drip edge. This helps prevent icicles and ice dams from forming on roof edges.

The heat trace cable manufacturer's installation instructions are provided with the heat cable. These procedures must be followed. Installation personnel must be licensed and knowledgeable 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 system layout; junction box placement, maximum cable run lengths and power feed requirements as defined by the National Electrical Code (NEC), local building codes and the heat trace cable manufacturer.

Completely read and understand these documents before starting the project.

Installation video outlining installation procedures can be found at www.hotedge.com

HotShingleLOK Installation Notes

1. Gently separate the third row of asphalt composite shingles from the second row. A thin 3-5 inch wide metal scraper functions best.
2. Flip HotShingleLOK panel over onto the unfinished side and apply a generous dose of Sure Bond 105 commercial grade adhesive or equivalent in 4 horizontal rows.
3. Flip HotShingleLOK panel back over so the finished side is up and lay HotShingleLOK on top of first and second asphalt composite shingle rows and slide gently beneath third until the backside of the cavity is seated against the existing asphalt composite shingle roof edge. Apply a small dose of Sure Bond 105 commercial grade adhesive beneath the highest shingle to secure it to the top of HotShingleLOK™. This will prevent wind from lifting the third row asphalt composite shingles lying on top of HotShingleLOK™.
4. The HotShingleLOK™ panels require a 1/8-1/4" gap between panels for expansion and contraction.
5. **INSIDE/OUTSIDE CORNERS:** Using hand held metal snips, cut the edges in a diagonal direction (approx. 120 degrees). Where the raceway meets in the corner, cut back each raceway 3 inches to allow for the heat trace cable to make the bend and avoid kinking! This is very important as the heat trace cable will not function properly if it was been kinked or cut.
6. Once all HotShingleLOK™ panels are in place on roof edge, it is time to feed the heat trace cable into the raceway. Starting at one end, feed the heat trace cable into the engineered raceway from the front. Be sure to tape the edges to protect the heat trace cable and prevent damage from burrs or sharp edges. Initiate this process by simply gently pushing the heat trace cable into the front raceway using your fingers or the plastic handle of a scraper. Then once the heat trace cable is loosely seated, complete the process by using a soft plastic scraper and pounding the handle with the palm of your hand.
7. Once the heat trace cable is seated tightly into the raceway, turn over the Transition Panel and apply a thin dose of Sure Bond 105 commercial grade adhesive or equivalent vertically in two rows. **BE CAREFUL** not to apply adhesive within 1 inch of the outer edges of the transition panels. You do not want to see adhesive squeeze out from the edges! Center the transition panel over the seam. We recommend that you place weighted material (bag filled with sand) on top of the transition panel to compress adhesive and transition panel over the seam.

WARNING

Low cost, constant current ice melt cable must not be used. Only safety agency "Listed", self-regulating ice and snow heat trace cable for roof structures that are provided with the system can be used.

Self-regulating Heating Cable Supplied with System

The HotEdge Rail is supplied with one of the following Listed (KOBQ) De-Icing and Snow-Melting Equipment Heating Cable and accessories (designed for roof and gutter de-icing and snow melt) indicated below and with the installation instructions provided by the heating cable manufacturer.

Products from NuHeat

NuHeat 13 Watt roof and gutter plug in cable 120V 5 ft	13PK08W1-5
NuHeat 13 Watt roof and gutter plug in cable 120V 10 ft	13PK08W1-10
NuHeat 13 Watt roof and gutter plug in cable 120V 15 ft	13PK08W1-15
NuHeat 13 Watt roof and gutter plug in cable 120V 25 ft	13PK08W1-25
NuHeat 13 Watt roof and gutter plug in cable 120V 50 ft	13PK08W1-50
NuHeat 13 Watt roof and gutter plug in cable 120V 75 ft	13PK08W1-75
NuHeat 13 Watt roof and gutter plug in cable 120V 100 ft	13PK08W1-100
NuHeat Heat Shrink Power Connection Kit (incl. 1 end seal)	RPPC
NuHeat Heat Shrink Splice.tee (incl. 2 End Seals)	RPST
NuHeat Heat shrink end seal (1pc)	RPES
NuHeat 13RGRC Roof Clips (box of 50)	RGRC
NuHeat Thermocube Thermostatic Outlet 120V	NH-THC
NuHeat Roof and Gutter Downspout hanger	RGDH
NuHeat Plug-in GFCI adaptor	FP-PLUG
120v NuHeat Roof & Gutter De-Icing Cable	13FP10W1
240v NuHeat Roof & Gutter De-Icing Cable	13FP10W2
120v NuHeat Roof & Gutter De-Icing Cable	R13P8-1
240v NuHeat Roof & Gutter De-Icing Cable	R13P8-2

Products from Tyco Thermal Controls LLC (Raychem)

- UL File KOBQ.E74811, De-icing and Snow-melting Equipment
- CSA Class 2872-01, File 021133_C_000 HEATERS-Cable and Cable Sets
- Raychem® IceStop® Roof & Gutter De-Icing Systems
 - GM-1X Heating cables (120VAC, 10 watts per foot)
 - GM-2X Heating cables (240VAC, 12 watts per foot and 277VAC, 12 watts per foot)
 - FTC-P Power Connection & End Seal Kit
 - FTC-HST Splice/Tee Connection Kit
 - GMK-RC Roof Clips
 - GM-RAKE Hanger Bracket
- Raychem® WinterGard Wet Roof & Gutter De-Icing Systems
 - H612 Heating cables (120VAC, 6 watts per foot)
 - H622 Heating cables (208-277VAC, 6 watts per foot)
 - H900 Power Connection & End Seal Kit
 - H910 Splice/Tee & End Seal Kit
 - H913 & H914 Roof Clip Kits
 - H915 Hanger Bracket Kit
 - H908 120VAC Plug-in Power Connection Kit

System Test by the Electrical Contractor

Insulation Resistance (Megohmmeter) Test

The insulation resistance test is critical to ensure the safety and reliability of the heating cable system. This test should be performed as part of the installation of the system. It is also useful for troubleshooting an installed system. This test is required for warranty coverage from some cable manufacturers. See details in the ice melt cable manufacturer's installation instructions.

A large peak amp reading at cold start-up may indicate a current draw issue. Some systems may require time delay relays to spread out this peak load.

Individual home runs are recommended for troubleshooting, repair and replacement of the ice melt cable.

