

RIM

CONNECT AND PROTECT

Roof Ice Melt system for concealed roof & gutter de-icing

PRODUCT OVERVIEW

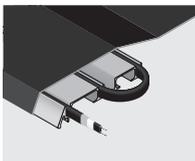
The nVent RAYCHEM Roof Ice Melt (RIM) system is our premier engineered, aesthetically elegant, concealed roof & gutter de-icing solution to prevent ice dams, icicles, and frozen gutter problems. The RIM system mechanically protects the self-regulating cable, provides high power output along the entire roof edge, and is ideal for new construction or renovation of buildings for all snow load areas, for residential or commercial buildings.

RIM system panels secure the heating cables in a fixed heat transfer position. They are specifically designed for eaves, valleys, channels, rakes and flat roof sections and come in a variety of aesthetically pleasing colors and finishes as standard or custom options to meet any project need.

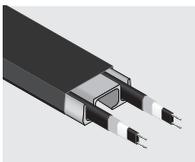
This maintenance-free RIM system embeds multiple runs of high wattage nVent RAYCHEM IceStop self-regulating heating cable offering the highest performing heating system with the most efficient heat transfer and cable protection. It is designed for heavy snow load areas with roof snow accumulation over 15 inches, and annual snowfall of over 100 inches. This data sheet will detail this system.

For color options with Aluminum cover panel, please refer to the RIM color guide (H59379).

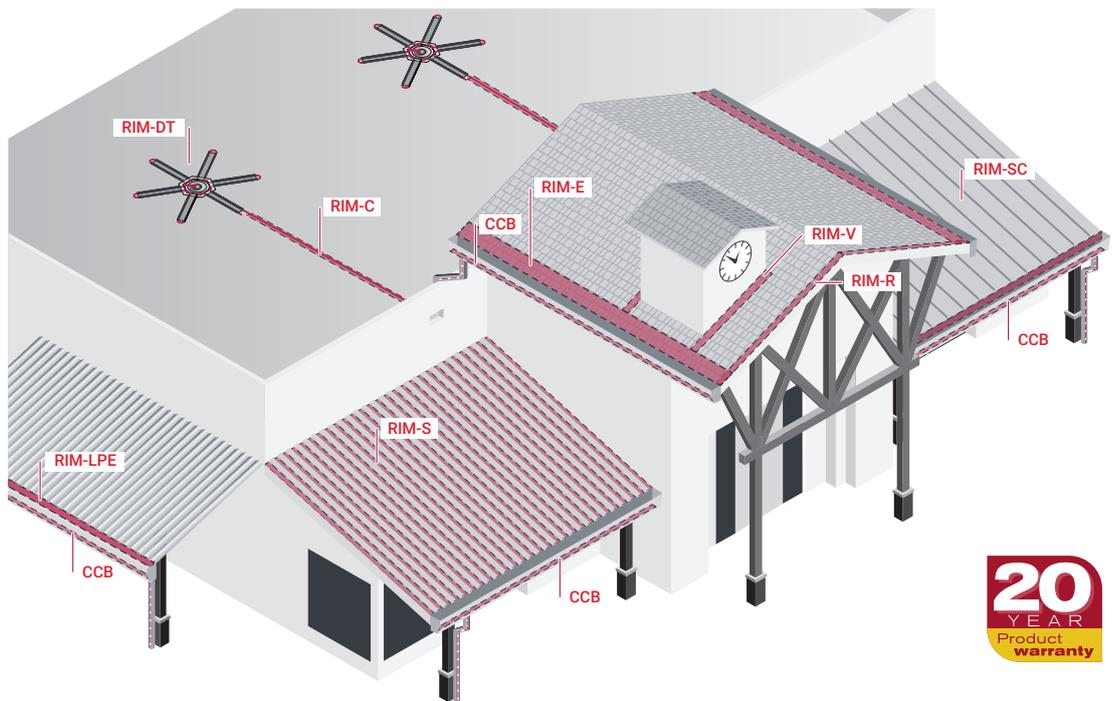
RIM-E | Eave Panel



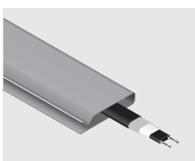
RIM-V | Valley Panel



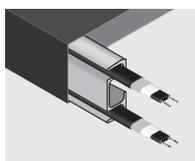
RIM-C | Channel Panel



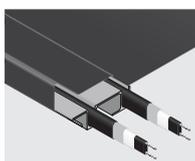
CCB | SHOWN with Self-Reg Cable



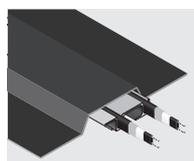
RIM-LPE | Low Pitch Eave Panel



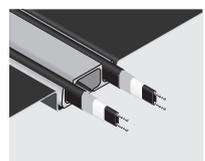
RIM-R | RAKE PANEL



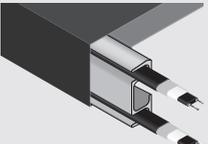
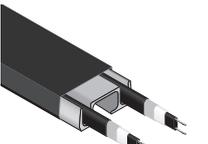
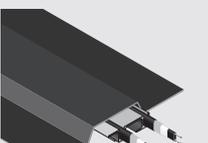
RIM-S | Snow Melt



RIM-SC | Snow Melt concealed



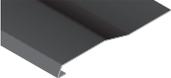
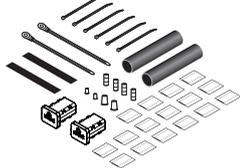
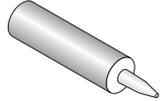
PANEL SYSTEMS

Catalog number	Part number	Description
RIM-E 	F6231-**-***	<p>RIM Eave (RIM-E) system is designed to mount on the roof eave, to minimize the formation of ice dams and icicles. RIM-Eave panels embed 3 runs of self-regulating heating cable for high power output requirements.</p> <p>Available in Aluminum and Copper cover panels Weight: 2,834.75 lb/1000 ft</p>
RIM-LPE 	F6248-**-***	<p>RIM Low Pitch Eave (RIM-LPE) system is specifically designed for integration with metal roof systems and for applications involving roof pitch less than 3:12. RIM-LPE panels embed 2 runs of self-regulating heating cable.</p> <p>Available in Aluminum and Copper cover panels Weight: 2,190.75 lb/1000 ft</p>
RIM-V 	F6281-**-***	<p>RIM Valley (RIM-V) system is designed to mount in the roof valleys to minimize the formation of ice dams and icicles in roof valleys. RIM-V panels embed 2 runs of self-regulating heating cable.</p> <p>Available in Aluminum and Copper cover panels Weight: 819.50 lb/1000 ft</p>
RIM-R 	F6261-**-***	<p>RIM Rake (RIM-R) system is designed to mount on the roof rake and direct the snow melt towards the eave. RIM-R panels embed 2 runs of self-regulating heating cable.</p> <p>Available in Aluminum and Copper cover panels Weight: 1,264.75 lb/1000 ft</p>
RIM-C 	F6221-**-***	<p>RIM Channel (RIM-C) system is designed to mount on the roof and provide a heated channel for snow melt to flow from one section of the roof to the other, usually a drain or eave. RIM2-C panels embed 2 runs of self-regulating heating cable.</p> <p>Available in Aluminum and Copper cover panels Weight: 750.75 lb/1000 ft</p>
RIM-S 	F6271-**-***	<p>RIM Snowmelt (RIM-S) system is designed to mount on the roof and is used to create wider snow melt paths. This panel system can be used to melt snow on roof sections between standing seams, or provide melt paths to access sections of roof. RIM-S panels embed 2 runs of self-regulating heating cable.</p> <p>Available in Aluminum and Copper cover panels Weight: 1,509.75 lb/1000 ft</p>
RIM-SC 	F6275-**-***	<p>RIM Snowmelt Concealed (RIM-SC) system is designed to mount under a metal roof surface so that the entire RIM panel is concealed. RIM-SC panels embed 2 runs of self-regulating heating cable.</p> <p>Weight: 1,155.75 lb/1000 ft</p>

HEATING CABLES

Catalog number	Part number	Description
GM-1X 	832100-000	IceStop self-regulating heating cable, 120 V
GM-2X 	446105-000	IceStop self-regulating heating cable, 208-277 V

CONNECTION KITS & ACCESSORIES

Catalog number	Part number	Description
RIM-EPSC 	R6211-**-**	<p>RIM Eave Panel Splice Cover (RIM-EPSC) is designed to cover the joints between RIM-E panels on the roof.</p> <p>Available in Aluminum and Copper cover panels</p>
RIM-EPEB 	R6015-23	RIM Eave Panel End Bracket, Black (RIM-EPEB) is designed to cover the ends of RIM-E panels on the roof.
WPCK-R 	F1012	WPCK-R is a CSA Certified and UL Listed power connection kit for RIM system. Materials for one power connection kit and end seal are provided.
WHES 	F1009	WHES is a CSA Certified and UL Listed end seal kit for RIM system. Materials for one end seal are provided.
FTC-HST-PLUS 	P000004419	FTC-HST-PLUS is a CSA Certified and UL Listed splice/tee kit for RIM system. Materials for two splices or tees are provided. One or two WHES end seals are required.
JB-55 	F0300	JB-55 is a CSA Certified and UL Listed junction box that can be used for a power connection kit for RIM system in conjunction with WPCK-R. Junction box dimensions 5"x5".
JB-75 	F0303	JB-75 is a CSA Certified and UL Listed junction box that can be used for a power connection kit for RIM system in conjunction with WPCK-R. JB-75 allows powering up to 3 cables (powered tee). Junction box dimensions 7"x5".
DSH 	B0402	Downspout hanger (DSH) is used to protect the heating cable from sharp edges at the corner of gutter and downspout.
HFF 	F0110	Heater Feedthrough Fitting (HFF) is used as a gland kit when the heating cable penetrates the gutter or downspout.
CCB 	R6201-**-**	<p>Cable Cover Bracket (CCB) is designed to mount on roofs or gutters and embeds one or two runs of self-regulating heating cable. It enhances the heat transfer from the heating cable to the snow, creating larger drain paths.</p> <p>Available in Aluminum and Copper cover panels Weight: 17 lb/1000 ft</p>
RIM Adhesive/Sealant 	B1626	RIM Adhesive/Sealant is a silicone sealant used to attach selected RIM systems to the underlying surface. Please refer to appropriate installation instructions included with the system. 10.3 oz. tube.

APPROVALS

The IceStop heating cables are UL Listed and CSA Certified only when used with the appropriate agency-approved nVent RAYCHEM connection kits and accessories. For approvals information, refer to the IceStop heating cable data sheet (H56428).

DESIGN AND INSTALLATION

For proper design and installation of a RIM system, use the appropriate product design guide (H59561) and the installation instructions included with the system (H59380).

GROUND-FAULT PROTECTION

To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of nVent, agency certifications, and national electrical codes, ground-fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection.

Many nVent RAYCHEM control and monitoring systems meet the ground-fault protection requirement.

North America

Tel +1.800.545.6258

Fax +1.800.527.5703

thermal.info@nVent.com



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