



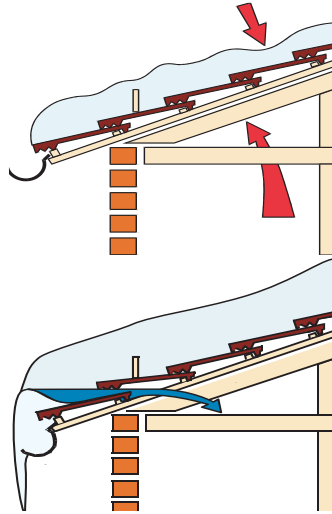
Raychem

MAKE YOUR ROOF WINTER SAFE! ELIMINATE ICE DAMS

DOES THIS HAPPEN TO YOUR ROOF?

ICE DAMS BUILD OVER SEVERAL STORMS

Ice dams and icicles form when accumulated snow on the roof melts and refreezes at the eaves and valleys before flowing into the drainage system. Ice dams are created over several storms, not a single event. As snow sits on the roof, solar energy and heat from within the building melt the snow.



- Snow is an insulator and will trap heat from the building and begin to melt.
- Snow is porous. The water flows through the snow to the eave and freezes. This begins the ice dam process.
- Ice forming on the eave retains the melt water, freezing it when temperatures drop, creating a bigger ice dam.

Risk for damage and safety hazard:

- An ice dam allows water to flow up under the shingles, potentially causing damage to the roof.
- Heavy snow can damage roofs, gutters and downspouts, or cause the roof to collapse.
- Icicles are dangerous for pedestrians and it is the legal obligation of a building owner to prevent or remove them.
- An unprotected roof is at risk for serious and costly damage.

MAKE YOUR ROOF WINTER SAFE!

OUR SOLUTIONS

Protect your roof with Raychem heating systems. Eliminate ice dams by ensuring a continuous path whereby melting ice and snow drains safely off.

FrostGuard, Gardian and WinterGard



Raychem's basic solutions offer simple preassembled plug-in kits and easy-to-install heating cables. Ideal for these conditions/desired features:

- Residential or small commercial buildings
- 120 V or 240 V; 8 W/ft @ 30°F
- Gutters up to 6" in width
- Preassembled plug-in
- Pre-terminated lengths
- Polyolefin jacket
- Light to moderate snow load areas



IceStop

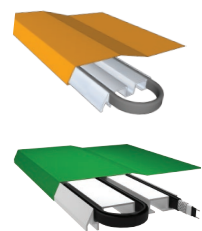


Raychem's high performing, cut-to-length heating cable solution meets the most stringent code requirements. Ideal for these conditions/desired features:

- Large commercial buildings
- 120 V or 208-277 V; 12 W/ft @ 30°F
- Gutter >6" in width
- Hazardous Locations (Fuel Loading Areas)
- Fluoropolymer jacket
- Advanced control options
- Light to heavy snow load areas



Roof Ice Melt (RIM)



Raychem's premiere, highest performing, aesthetically elegant roof & gutter de-icing solution is designed with cables that are concealed in panels. Ideal for these conditions/desired features:

- All building types
- Better aesthetics with concealed cable
- 120 V or 208-277 V; up to 36 W/ft @ 30°F
- Gutter >6" in width
- Mechanical cable protection
- Available in 32 colors or copper
- Standard & Custom options
- Advanced control options
- ALL snow load areas





Email completed form to your Pentair Sales Rep for a complete Bill of Materials and quote!

ROOF & GUTTER SYSTEM ESTIMATE FORM Need Quote For: HEATING CABLE SYSTEM RIM CONCEALED SYSTEM BOTH

CHECK OUT OUR ONLINE ROOF AND GUTTER DE-ICING DESIGN TOOL at www.pentairthermal.com

by selecting the Commercial or Residential segment -> Resources and click on the Roof & Gutter De-Icing Calculator design tool.

Contractor: Tear here. Offer the left side to the homeowner / building owner. Email the worksheet to your Raychem Sales Rep to get a complete Bill of Materials and quote! © 2016 Pentair. H59869 07/16

1. Building Type & Conditions: (check all that apply)	<input type="checkbox"/> House	<input type="checkbox"/> Small shop / strip mall	<input type="checkbox"/> High-rise residential / multi-use bldg.	<input type="checkbox"/> Commercial building
	<input type="checkbox"/> New Construction		<input type="checkbox"/> Retrofit	
	Annual Snow Fall <input type="checkbox"/> less than 100 inches <input type="checkbox"/> more than 100 inches			
2. Area Name:				
3. Type of Roof:	<input type="checkbox"/> Sloped Roof Shingle	<input type="checkbox"/> Sloped Roof Shingle	<input type="checkbox"/> Sloped Roof Shingle	<input type="checkbox"/> Sloped Roof Shingle
	Metal Roof-Seams <input type="checkbox"/> 18" <input type="checkbox"/> 24" <input type="checkbox"/> __" <input type="checkbox"/> Don't Trace Roof	Metal Roof-Seams <input type="checkbox"/> 18" <input type="checkbox"/> 24" <input type="checkbox"/> __" <input type="checkbox"/> Don't Trace Roof	Metal Roof-Seams <input type="checkbox"/> 18" <input type="checkbox"/> 24" <input type="checkbox"/> __" <input type="checkbox"/> Don't Trace Roof	Metal Roof-Seams <input type="checkbox"/> 18" <input type="checkbox"/> 24" <input type="checkbox"/> __" <input type="checkbox"/> Don't Trace Roof
4. Roof Pitch:	<input type="checkbox"/> Less than 3/12 <input type="checkbox"/> Equal to or more than 3/12	<input type="checkbox"/> Less than 3/12 <input type="checkbox"/> Equal to or more than 3/12	<input type="checkbox"/> Less than 3/12 <input type="checkbox"/> Equal to or more than 3/12	<input type="checkbox"/> Less than 3/12 <input type="checkbox"/> Equal to or more than 3/12
5. Length of Roof Edge:	_____ feet	_____ feet	_____ feet	_____ feet
6. Eave Overhang Distance:	<input type="checkbox"/> 0" <input type="checkbox"/> 12" <input type="checkbox"/> 24" <input type="checkbox"/> 36" (other) _____ inches	<input type="checkbox"/> 0" <input type="checkbox"/> 12" <input type="checkbox"/> 24" <input type="checkbox"/> 36" (other) _____ inches	<input type="checkbox"/> 0" <input type="checkbox"/> 12" <input type="checkbox"/> 24" <input type="checkbox"/> 36" (other) _____ inches	<input type="checkbox"/> 0" <input type="checkbox"/> 12" <input type="checkbox"/> 24" <input type="checkbox"/> 36" (other) _____ inches
	7. Gutters:	Total Length: _____ feet Depth: _____ inches Width: _____ Inches <input type="checkbox"/> No Gutters	Total Length: _____ feet Depth: _____ inches Width: _____ Inches <input type="checkbox"/> No Gutters	Total Length: _____ feet Depth: _____ inches Width: _____ Inches <input type="checkbox"/> No Gutters
8. Downspouts:	Number of Downspouts: ____	Number of Downspouts: ____	Number of Downspouts: ____	Number of Downspouts: ____
	Average Downspout Length: ____ ft	Average Downspout Length: ____ ft	Average Downspout Length: ____ ft	Average Downspout Length: ____ ft
	<input type="checkbox"/> Single Run in Downspout <input type="checkbox"/> Loop Run in Downspout <input type="checkbox"/> No Preference	<input type="checkbox"/> Single Run in Downspout <input type="checkbox"/> Loop Run in Downspout <input type="checkbox"/> No Preference	<input type="checkbox"/> Single Run in Downspout <input type="checkbox"/> Loop Run in Downspout <input type="checkbox"/> No Preference	<input type="checkbox"/> Single Run in Downspout <input type="checkbox"/> Loop Run in Downspout <input type="checkbox"/> No Preference
9. Valleys:	Number of Valleys: ____	Number of Valleys: ____	Number of Valleys: ____	Number of Valleys: ____
	Average Valley Length: ____ ft	Average Valley Length: ____ ft	Average Valley Length: ____ ft	Average Valley Length: ____ ft
10. Voltage:	<input type="checkbox"/> 120 V <input type="checkbox"/> 208 V <input type="checkbox"/> 240 V <input type="checkbox"/> 277 V	<input type="checkbox"/> 120 V <input type="checkbox"/> 208 V <input type="checkbox"/> 240 V <input type="checkbox"/> 277 V	<input type="checkbox"/> 120 V <input type="checkbox"/> 208 V <input type="checkbox"/> 240 V <input type="checkbox"/> 277 V	<input type="checkbox"/> 120 V <input type="checkbox"/> 208 V <input type="checkbox"/> 240 V <input type="checkbox"/> 277 V
11. Circuit Breaker Size:	<input type="checkbox"/> 15 A <input type="checkbox"/> 20 A <input type="checkbox"/> 30 A	<input type="checkbox"/> 15 A <input type="checkbox"/> 20 A <input type="checkbox"/> 30 A	<input type="checkbox"/> 15 A <input type="checkbox"/> 20 A <input type="checkbox"/> 30 A	<input type="checkbox"/> 15 A <input type="checkbox"/> 20 A <input type="checkbox"/> 30 A
12. RIM Cover Panel:	<input type="checkbox"/> Kynar Painted Aluminum	<input type="checkbox"/> Kynar Painted Aluminum	<input type="checkbox"/> Kynar Painted Aluminum	<input type="checkbox"/> Kynar Painted Aluminum
	<input type="checkbox"/> Copper	<input type="checkbox"/> Copper	<input type="checkbox"/> Copper	<input type="checkbox"/> Copper
13. Controllers:	<input type="checkbox"/> Ambient Temperature Only	<input type="checkbox"/> Ambient Temperature Only	<input type="checkbox"/> Ambient Temperature Only	<input type="checkbox"/> Ambient Temperature Only
	<input type="checkbox"/> Ambient & RIM Panel Temperature (HECS)	<input type="checkbox"/> Ambient & RIM Panel Temperature (HECS)	<input type="checkbox"/> Ambient & RIM Panel Temperature (HECS)	<input type="checkbox"/> Ambient & RIM Panel Temperature (HECS)
	<input type="checkbox"/> Gutter Moisture & Temperature Sensor	<input type="checkbox"/> Gutter Moisture & Temperature Sensor	<input type="checkbox"/> Gutter Moisture & Temperature Sensor	<input type="checkbox"/> Gutter Moisture & Temperature Sensor
14. Notes:				
15. Customer name:				
Company:				
Phone:				
Email:				
Project name:				
Project location:				

BUSINESS CARD



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