JSR13 Roof Clip(10)
JSR14 Roof Clip(50)
JSR15 Hanger Bracket

Description

The JSR13 and JSR14 Roof Clip Kit and the JSR15 Hanger Bracket Kit are suitable for use with HTR heating cables. Do not use other hardware or techniques which may damage the heating cable and cause electrical hazard, risk of fire or poor performance. risk of fire or poor performance.

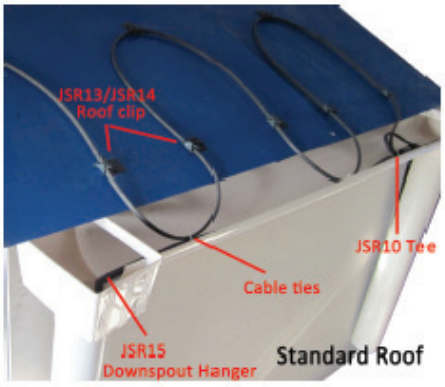


Figure 1

JSR13/JSR14

The JSR13 and JSR14 roof clips are used to secure HTR heating cables to shingle and metal seam roofs and gutters. For applications where nails and screws will be used to install clips, go to page2. For applications where adhesive will be used to install clips, go to page3. The JSR13 is a bag of 10 clips and the JSR14 is a box of 50 clips.

JSR15

The JSR15 hanger bracket is used to provide mechanical protection to the HTR heating cables as it goes oversharp edges and to hold the heating cable in place at the top ofdownspouts. Refer to page3 for instruction on how to install the JSR15 hanger bracket.

Tools Required(Installed per NFPA70, National Electrical Code (NEC), Artide 426)

1. screwer
2. Pliers
3. Caulking Gun

Recommended Adhesives for Metal Roofs

1. SpeedBonder@H3300(Methacrylate Adhesive)
2. SpeedBonde H4800 (Methacrylate Adhesive)
3. Plexus@MA300 (Methacrylate Adhesive)
4. Plexus MA310 (Methacrylate Adhesive)
5. DGE@ Grey RTV 167 Adhesive (Neutral-cure Silicone Adhesive)

Approvals

c UL us LISTED — 46DV PIPE HEATING CABLE & 4FB1 DE-ICING AND SNOW MELTING EQUIPMENT

kit contents

JSR13 Contents

Item	Qty	Description
A	10	Roof Clips

JSR14 Contents

Item	Qty	Description
A	50	Roof Clips

JSR15

Item	Qty	Description
B	1	Hanger bracket

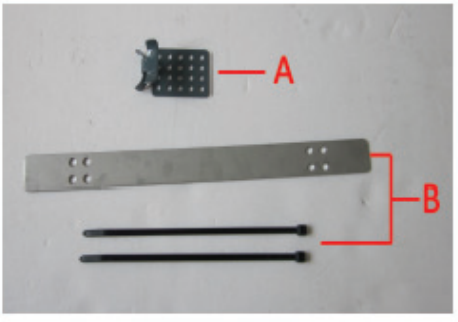


Figure 2

WARMZONE PREMIER RADIANT HEATING

JSR13 Roof Clip(10)
JSR14 Roof Clip(50)
JSR15 Hanger Bracket

Warning:

1. Roof Clips and Hanger Brackets must be installed properly to ensure proper operation and to prevent the risk of electrical hazard or fire. Follow all design, installation, assembly, and test instructions carefully.
2. To minimize the damager of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of national electrical codes, ground-fault equipment protection.
3. Article 426 of the National Electrical Code and Section 62 of CAN/CSA-C22.1, Canadan Code govern the installation of HTR heating cable must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection.with the requirements of national electrical codes, ground-fault equipment protection.
4. Do not use Clip and Hanger Bracket for installation on slate or tile roofs as damage may occur to roof material. Consult roofing manufacturer for components approvedfor use on specific roof material.
5. De-energize all power circuits before installation or servicing.
6. Keep ends of heating devices and kit components dry before and during installation.
7. Damanged heating cable can cause arcing or fire. Do not energize damaged heating cable. Repair or replace damaged heating cable prior to applying power.
8. While using pliers to close clamps on heating cable, heating cable should not be crushed or altered structurally in any way.
9. The cable should not be twisted during installation.
10. Heating cable should not be embedded in the thermal insulation.

JSR13/JSR14 with screw or nail

1. Determine heating cable layout and clip placement according to JSR00 and JSR08 installation instructions.
2. Apply sealant,appropriate for your roof,to back side of clip where nail or screw will be used.
3. Orient the clip as needed, attach slip to roof using a nails or a screws

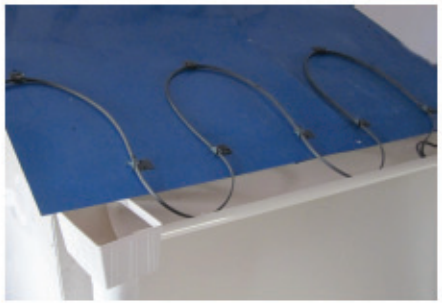


Figure 1

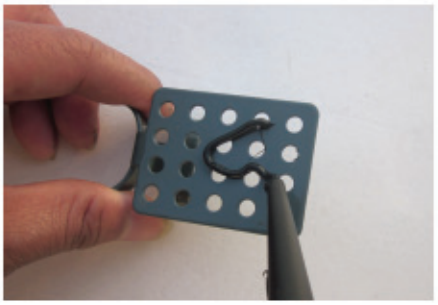


Figure 2

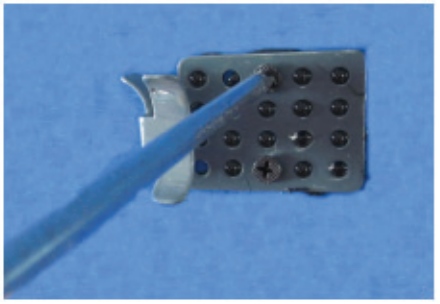


Figure 3

WARMZONE
PREMIER RADIANT HEATING

JSR13 Roof Clip(10)
JSR14 Roof Clip(50)
JSR15 Hanger Bracket

JSR13/JSR14 with screw or nail

4. Spread sealant on top of nail or screw heads



Figure 4

5. Install heating cable. Use pliers to close clamps, but do not crush the heating cable.



Figure 5

JSR13/JSR14 with adhesive

1. Determine heating cable layout and clip placement according to JSR00 and JSR08 installation instructions.



Figure 1

2. Adhesive Selection:
   Select appropriate adhesive
   For most metal roofs, we recommends GE RTV 167 Grey
3. Prepare roof surface per adhesive manufacture's specification. Apply a liberal amount of adhesive to back side of Roof Clips

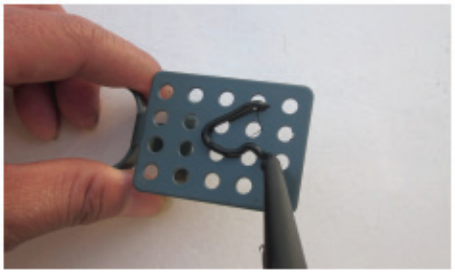


Figure 3

4. Place clip on prepared surface. Press down to ensure adhesive flows through holes.

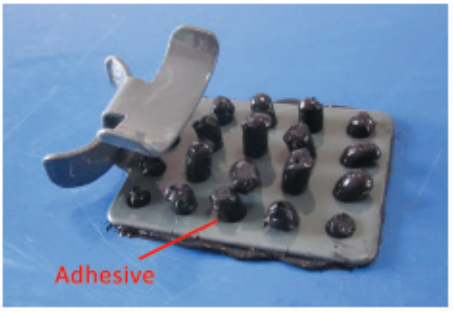


Figure 4

5. Install heating cable. Use pliers to close clamps as page 2 shown, but do not crush the heating cable.

Installing JSR15 in Gutter

1. Bend the JSR15 to approximately 90 degree. Insert cable ties through holes on the JSR15



Figure 1

2. Position the JSR15 and tighten the cable ties. Trim off excess cable tie.



Figure 2

3. The JSR15 should be centered on the edge of the downspout to prevent mechanical damage and to support the heating cable.

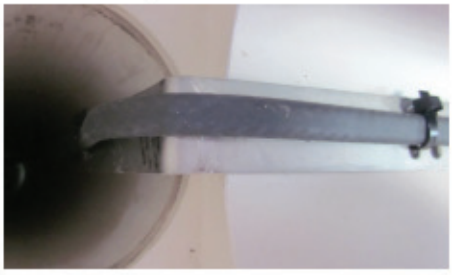


Figure 3

4. The JSR15 can be used to protect the heating cable from sharp edges.
   The JSR15 can also be used in gutter as a spacer

WARMZONE
PREMIER RADIANT HEATING