



# JS-222<sup>TM</sup>

## Metal Roof Heat Cable Clip

### JS-222 Uses:

Use the JS-222 roof clip to install heat cable on a variety of standard metal roof panels such as corrugated and trapazoidal panels. The included butyl tape pads seal around the mounting screws to significantly reduce the likelihood of water penetration through the roof system.

### Installation:

**TOOLS:** You will need a cordless drill and a standard 5/16" Hex head driver bit. You may choose to use a pliers to clamp the 'cradle' of the JS-222 onto the heat cable but pinching with your fingers typically works fine.

The JS-222 clips come with butyl tape pads that are installed between the clips and the metal roof panel surface. Before installing the clips determine your exact cable installation pattern (refer to the heat cable manufactures recommendations). Once the installation pattern is determined install the clips following the directions below.

#### Step One:



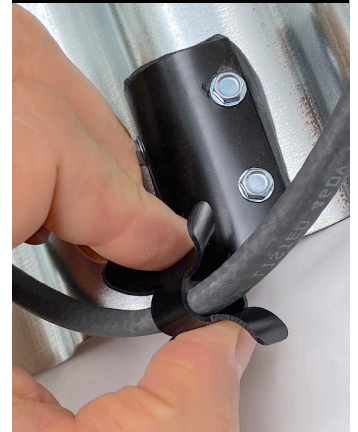
#### Step Two:



#### Step Three:



#### Step Four:

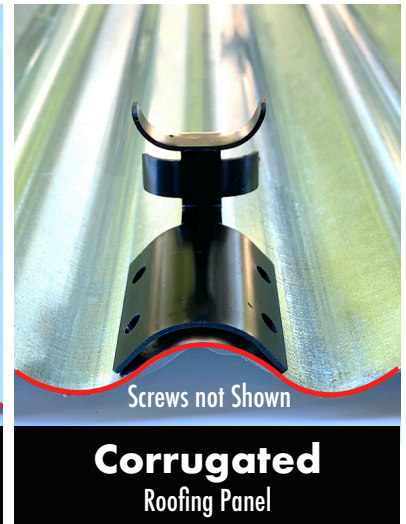
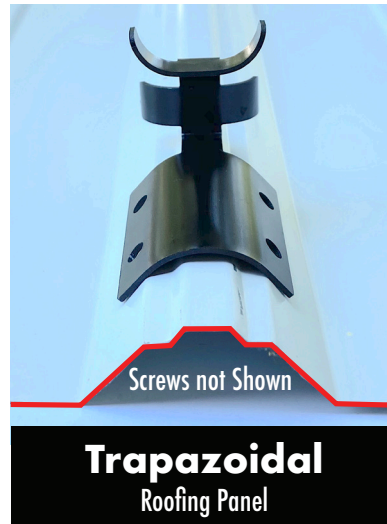


- 1. Clean:** Proper surface preparation is important to create a good seal between the butyl tape pads and the JS-222 clips. Use a cotton rag dampened with common isopropyl alcohol (rubbing alcohol) to clean the roof panel surface. You only need to clean an area the size of your palm for each clip.
- 2. Place:** Peel the backing off both sides of the butyl pad and stick the pad onto the roof surface EXACTLY where you intend to install the JS-222. Seat the JS-222 on the butyl pad. With your fingers, push on the clip surface to make sure all areas are fully bonded. Make sure the surface is dry and clean of all debris, dirt, oil, chalkiness before applying your butyl tape pad to the roof surface.
- 3. Secure:** Use four gasketed self-tapping sheet metal screws (included) and a 5/16" driver bit (not included) to secure each JS-222 in position by driving the screws through the provided holes through the butyl tape pad below. Do not over-tighten the screws. You can use a drill bit to create pilot holes for the mounting screws if you find the screws are difficult to install.
- 4. Pinch:** After the JS-222 is secured, lay the heat cable into the cradle area of the clip and use your fingers to pinch the top half of the cradle down onto the cable. A pliers can also be used for the pinching process.

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### Installation Examples



### Heat Cable:

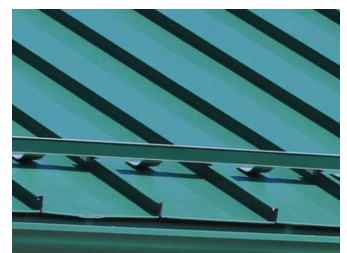
JS-222 roof clips work for the installation of both self-regulating and constant wattage heat cable on a number of different metal roofing panels. Always follow the heat cable manufacturers installation recommendations to determine the tracing pattern. The height and width of your heat cable pattern will be dictated by the type of roof system you have and the heat cable manufacturers installation manual.

### Snow & Ice:

We strongly recommend that a snow retention system be installed above your heat cable system (examples, right). Heat cables mounted with any type of roof clip can be damaged by sliding snow and ice. JS-222 will not arrest sliding snow or ice and may possibly be damaged by the force of snow and ice sliding off the roof system. The JS-222 warranty will not be honored on roofs without snow retention systems for this reason.



Snow Guards



Snow Fence

### Considerations:

The JS-222 can be installed at 35°F or warmer on clean, dry surfaces. The butyl tape will seal around the mounting screws immediately, creating a waterproof bond. Note that the contour of the JS-222 will not perfectly match that of certain roof panel profiles. You can manipulate the shape of the JS-222 slightly to accommodate contour differences, allowing the clip to fit better. That said, the butyl tape pad will provide a seal between the JS-222 and most paneled roof systems even if the clip and the roof surface do not match perfectly.

**\*REMOVAL:** Because the JS-222 use screws to mount to the roof surface there will be holes left behind should you choose to remove the clips. A simple sheet metal patch can be used to cover the holes if desired. Consult your metal roofing manufacturer prior to JS-222 installation to discuss any warrant implications. The JS-222 have a two year warranty against failure relating to manufacturing defects.