

# Radiant **GUARD**

Protecting Your Energy Costs

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## Installation Instructions for Metal Building Roofs

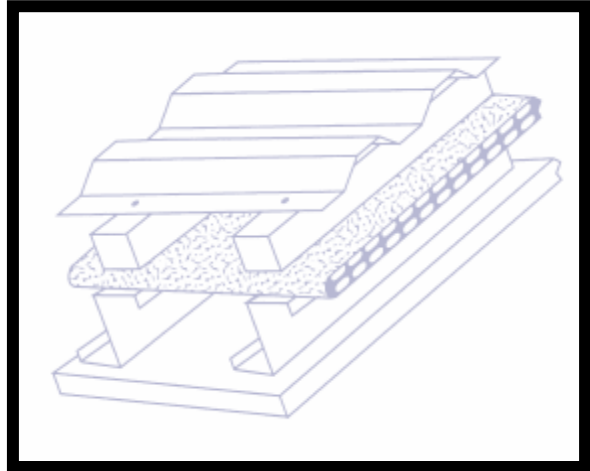
Please read and follow all of the steps below to ensure proper installation.

### Products Suggested:

- Radiant **GUARD**™ **FOIL** or **WHITE** Bubble radiant barrier insulation

### Materials Needed:

- Tape Measure
- Utility knife
- Scissors
- Tek screws
- Foil or White tape



### NEW ROOF Installation Instructions:

1. After the red metal is erected, install **Radiant GUARD**™ bubble insulation over the purlins by using 1/2" tek screws and screwing the foil to the purlins.
2. Butt ends together and tape with aluminum foil tape. Gaps will cause air infiltration which may cause condensation.
3. Install at least a 1/2" thermal break. If installing a standing seam roof, use clips with thermal breaks.
4. Install roofing either by screwing corrugated metal through the thermal break and insulation to the purlin or install a standing roof seam.
5. If an interior finish is to be installed, attach to the bottom of the purlins. This will create a 1/2" air space between the roofing and the insulation and an 8" air space between the insulation and the interior finish.

### RETROFIT ROOF Installation Instructions:

1. Before installing **Radiant GUARD**™ bubble insulation, inspect the roof area for clutter - water sprinkler systems, conduit and lights. Sprinkler systems are especially important. All water pipes must be below the insulation to prevent the possibility of freezing in the winter. In many instances, the bubble insulation must be installed up near the roof deck.
2. Install 1" x 2" furring strips on the bottom of and perpendicular to the Z purlins on 24" centers. 1 1/4" self-taping sheet metal screws to secure the furring strips to the Z purlins.
3. Butt furring strips together and tape. Staple tape for reinforcement.
4. Staple bubble insulation to furring strips.

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5. There is no need to cut the bubble insulation to an exact size before installing, since the insulation is below the Z purlins.
6. Butt seams and tape together using foil tape. Gaps will cause air infiltration which may cause condensation.