

Rafter Mount

T.R.A.-MAGE's Rafter Mount Snow Fences have been designed to attach to the sides of a rafter, and can be used on all types of sloped roof systems.

For optimum assurance that your rafters can support the snow load, check with a structural engineer. You will need to know the snow load, roof slope and snow fence location. The general rule of the deck mount placement is to install one row of snow fences at the eave over the plate line, adding additional rows up the roof every 15' when the eave to ridge length runs over 20'. An engineer should be consulted to determine that each snow fence will hold specific load.

PLEASE NOTE:

- The snow load is based upon the ground snow load, roof slope and the number of square feet of snow load that will be on a given bracket. Check with your local building department to verify the snow loads for your area.
- Snow fences are designed to stop upper-layered snow and ice from sliding off a roof. Snow brackets should be used to stop other snow and ice movement on roofs.
- Snow fences do not stop ice dams from occurring. Please refer to the NTRMA and WSRCA manual for proper roofing application in heavy snow areas.

INSTALLATION

It is easier to install the R-1 Snow Fence before the roof sheathing is installed. The first row of snow fences should always be over the plate line. Place the bracket so that the 1/2" lag bolt holes line up in the center of the side of the rafter. The holes are made for a 3/8" bolt diameter. The length of bolt needed should be determined by the rafter thickness and the nut and washer. To keep the bracket lined up with the holes for snow fence pipes, run one pipe through the previous bracket installed to the new one. We recommend that the snow fence be installed 16" to 24" on centers. An engineer should be consulted to determine that each snow fence will hold each specific load.

Install the sheathing tight around the 1/4" plate steel R-1 bracket. It is our recommendation that ice and water protector membrane be installed from the roof sheathing up the bracket at a minimum of 3". Seal well. This needs to be done when temperatures are above 40 degrees F.

In applying the roofing product, step shingles should be cut to fit around the snow fence penetration. The top of the step flashing should be caulked as you would caulk a surface mounted sheet metal reglet.

Slide the pipes through the holes in the R-1 bracket. The pipes are 10' long and are threaded on each end. Connect at the coupling. Install rows up the roof as needed.