

Tile Mount

T.R.A.-MAGE's Tile Mount Snow Fence have been designed for use as a tile surfaced mounted snow fence going on top of the tile through the tile head lap for all tile roofs. It has been designed to be installed on top of a vertical batten or on the roof decking which has been covered with ice and water protector membrane. The lag bolts go through the vertical batten, ice and water protector membrane, sheathing and into the roof rafters.

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.

For assurance that the lag bolts will not pull out due to snow and ice loads, check with the structural engineer or lag bolt manufacturer for load pull-out numbers on the lag size and length. The fail point on these snow fences is the lag screws and their pull-out poundage. Be sure that there are enough snow fences up the roof to carry the weight of the snow without pulling out the lag screws.

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

Install the snow fence over the roof plate line. The snow fence must be secured to the rafter. The hole size for the lag bolt is 1/2". So you will need to use a 3/8" bolt. T.R.A.-MAGE recommends caulking with butyl around the snow fence base in the lag holes. To keep the snow fences lines up with the holes for the pipes, run one pipe through the previous bracket installed to the new one. Snow fence brackets should be installed from 16" to 24" on centers. Slide pipes through the holes in the snow fence brackets. The pipes are 10' long and are threaded on each end. Connect the pipes at the coupling. Install additional rows of snow fence up the roof as needed

To make sure that the tile head lap seals well and wind blown snow is minimized by the weather-checks, cut a notch in the weather check where it rests on the snow fence so that it lays flush on the tile below. Install additional rows of snow fence up the roof as needed.