

DESIGN CONSIDERATIONS



✱✱ All loads incurred by **SN❄BAR™** will be transferred to the panels. Therefore, proper panel attachment to substrate/structure is necessary to prevent roof panels from sliding under snow load.

✱✱ Drifting snow should be considered when designing for snow retention.

✱✱ It is not recommended to place the **SN❄BAR™** system in isolated areas such as doorways, vents and partial roof areas.

✱✱ New and existing structures must be evaluated to insure they can withstand the additional loads incurred by retained snow. Knowledge of local ground snow load will help in designing a layout.

✱✱ If the building has an overhang, check to make sure it can handle the additional snow load. If not, place the first row of **SN❄BAR™** over the bearing wall.

✱✱ Consider whether your roof system and/or substrates (felts or membranes) are designed to take the increased ice damming that will occur with the addition snow retention.

✱✱ Will you need more than one row of **SN❄BAR™**? This requirement is based on the seam spacing, ground snow load, potential drifting, roof slope and length of the longest panel. If so, the additional rows should be spaced equally up the slope from the first bar. Clamps should be placed at every seam, so that the load is distributed evenly to every roof panel.

✱✱ Is the roof panel adequate for a clamp type system? **SN❄BAR™** would prefer 24 ga. steel for the panel with at least a 1" high seam. It is not recommended to use a clamp type system when the roof panel uses a separate seam cover or batten.

✱✱ Finally, no matter how much is designed into a system, Mother Nature will throw more at us than we have considered, such as drifting, ice, unusual amounts of snowfall, etc. Owners must be aware of these conditions and when these extremes are reached, snow and ice should be physically removed from the roof.

*It is the sole responsibility of the Designer/Architect, Installer, or Owner to assess the suitability of using **SN❄BAR™** based on the above design considerations. Riddell & Company, Inc. and Action Manufacturing, LLC are under no liability if failure occurs from improper installation, improper set screw torque, improper panel attachment, improper roof system installation, improper use of the **SN❄BAR™** system or under design of the **SN❄BAR™** system.*

