

Gem Series Snow Retention Specifications for Standing Seam Metal Roof Systems

To be used with the 12-MEC (1 Tube, 2" System), 22-MEC (2 Tube, 2" System) and 32-MEC (3 Tube, 2" System) & 2" Gem Clamp[™]

PART 1 - GENERAL

1.1 SUMMARY:

A. WORK INCLUDES:

1. Gem Clamp[™] and MEC Bracket for standing seam metal roof systems.
2. Non-penetrating attachment directly to the roof panel seam.
3. Provide brackets, clamps, set screws, fasteners and all other component parts that make up the snow retention system.

B. RELATED SECTIONS:

1. Division 1: General Requirements
2. Division 7: Thermal and Moisture Protection
 - a. Section 07600: Flashing and Sheet Metal
 - b. Section 07610: Metal Panels

1.2 SYSTEM DESCRIPTION:

A. COMPONENTS:

1. MEC Bracket
2. 2" Gem Clamp[™]
3. 2" x 1" Square Tubing
4. End Cap
5. Insert
6. Ball Point Set Screw (Silver Bullet[™])
7. Barricade Plate[™]

B. DESIGN REQUIREMENTS:

1. Bracket/clamp spacing to be recommended by an Architect and/or Engineer.
2. Spacing will vary based on several factors including geographical region, snow load and building characteristics.
3. Install a minimum of 2 fasteners per bracket.
4. Our office does not perform an independent site inspection and strongly recommends that an Architect and/or Engineer review the project and any contemplated snow retention layout to ascertain and confirm the projected loads applicable to this project.

1.3 SUBMITTAL:

A. REVIEW OF SUBMITTALS:

1. Show locations of the snow retention system on the roof plan and specify bracket/clamp spacing as required by an Architect and/or Engineer.
2. Include detailed product cut sheets, installation instructions and specifications.

1.4 QUALITY ASSURANCE:

A. CERTIFICATION:

1. Sno Gem[®] strongly recommends that these products be installed by a qualified Roofing Contractor who will have the knowledge and ability to properly install the product.

2. Install the snow retention system in accordance with an approved layout, installation instructions and approved submittals.

1.5 DELIVERY / STORAGE / HANDLING:

A. PROCEDURE:

1. Inspect material upon delivery and provide notice of any missing or defective items within 24 hours.
2. Adequately secure and protect the material until installation.

PART 2 - PRODUCTS

2.1 MANUFACTURER:

A. GEM SERIES:

1. A division of Sno Gem, Inc., 4800 Metalmaster Way, McHenry, IL 60050, (888) 766-4367, www.snogem.com

2.2 MATERIALS:

A. COMPONENTS:

1. MEC Bracket: Stainless Steel
2. 2" Gem Clamp™: 6061-T6 or 6063-T6 Aluminum
3. 2" x 2" Square Tubing: 6061-T6 Aluminum or Stainless Steel
4. Insert: Zinc Zamak #3
5. End Cap: Zinc Zamak #3
6. Silver Bullet™: 300 Series Stainless Steel
7. Barricade Plate™: Aluminum or Stainless Steel
8. Fastener:
 - a. To be compatible with the specified roof application.

2.3 FINISH:

A. MATERIALS:

1. Standard mill finish.
2. Powder Coating or Kynar available upon request.

PART 3 - EXECUTION

3.1 EXAMINATION:

A. SUBSTRATE:

1. Inspect the roof system in its entirety to verify proper attachment, completion and the ability of the building structure to withstand additional loading applied by the snow retention system.

3.2 INSTALLATION:

A. PROCEDURE:

1. Install the snow retention system in accordance with an approved layout, installation instructions and approved submittals.