Division of Roofers World

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WWW.SNOSTOP.COM
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1. BACKGROUND INFORMATION

Engineer Certified  Snow Guard Systems Color Matched to Your Specific Project.

Snostop™ pioneered the concept of pre-engineered snow guard systems color matched to project requirements – each system is design engineered, certified and approved to match local snow loads. We calculate snow loads based on local weather conditions, using the highest historical 50 year snow load data for the region. Our engineer calculates the exact number of snow guards required for each project based on your actual roof substructure, roof surface, sheathing and thickness, snow load, and roof slope length and pitch. Every Snostop™ system is custom designed to meet technical load calculations with a 2:1 safety factor. If your region receives a greater snowfall than normal, the Snostop™ snow guard system has been designed to handle such variables. At Snostop™, we engineer both penetrating and non penetrating systems to withstand snow load conditions anywhere in the world. Snostop™ pre-engineered snow guards are designed both for efficiency and good esthetics, and will last the lifetime of your roof if installed according to our layout and installation instructions.

Snostop™ prides itself in having offered thousands of satisfied customers a complete engineered snow management solution to prevent falling snow and ice from commercial and residential roofs since 1996. Snostop™ is a leading supplier of snow guards for federal, provincial, industrial, commercial and corporate snow guard projects in Canada and USA. Chances are we have previously provided snow guards for every type of roof structure and roofing material - including asphalt shingles, metal roofing, standing seam panels etc. - from most major North American metal product manufacturers.

THE SNOW GUARD EXPERT

Cam Haszczyn has over 15 years experience working with architects and engineers and has designed over 5000 custom snow management systems.

Cam has a university background in Earth Sciences majoring in Climatology and previous work experience in construction. Cam applies his extensive knowledge and understanding of weather systems, building structures and substructure design in managing both the Snostop™ and RNC Anchors divisions.

Rest Assured that Cam and the 2 professional engineers on staff will design you a custom snow management system built to weather the worst storms.
“Snostop is not a snow guard product; it is a snow management solution”

US Projects

- Department of Military Affairs - Helena, Montana
- Fulton Fish Market, The Bronx, New York
- Dover Military Air force Base, Maryland
- Minnesota Judicial Building - Minneapolis, Minnesota
- Water Reservoir - Duluth, Minnesota
- Clinton School Board (Two Schools) - Clinton, Maine
- Law Offices, Park Avenue - New York, New York
- Thames River Bridge – Gronot, Connecticut
- Vermont Ski Resorts (several) - Vermont
- American Textile Plant, Pittsburgh PA
- East Lake High School, Seattle Washington
- Clear Air Force Base, Fairbanks Alaska
- Pennsylvania Prison System / Forest County Correctional Institute - Forest County, Pennsylvania

Every year, tens of millions of people walk under Snostop snow guards
Corporate Accounts

Corporate customers who have chosen Snostop to be the specified system of choice for their new and retrofit stores. Snostop is chosen because we engineer each system and we protect our customers bottom lines against potential litigation caused by falling snow and ice.

- Canadian Tire
- Loblaws
- Burger King
- Walmart
- Your Independent Grocers
- A.P.M. Superstores
- Home Depot
- Zellers
- Provigo

Every year, millions of shoppers walk safely beneath Snostop snow guards throughout Canada and the USA every Winter.
## Canadian Projects

Transport Canada

- Toronto International Airport - Toronto, ON
- Edmonton International Airport - Edmonton, AB
- Ottawa International Airport - Ottawa, ON
- Calgary International Airport - Calgary, AB
- Halifax International Airport - Halifax, NS
- Deer Lake International Airport - Deer Lake, NL

### Department of Defence

- CFB Petewawa - Petewawa, ON
- CFB Gagetown - Gagetown, NB
- CFB Kingston - Kingston, ON
- CFB Bagotville - Bagotville, QC
- CFB Halifax Fleet Center - Halifax, NS
- HMCS Charlottetown - Charlottetown, PEI
- DND Wainwright - Wainwright, AB

### Provincial Projects

- Casino Rama - Orillia, ON
- Moncton Casino - Moncton NB
- Several LCBNB - New Brunswick
- Several LCBOs - Ontario Wide

### Federal Projects

- National Archives of Canada - Gatineau, QC
- Department Of Public Works Government Services Sault Ste. Marie, ON & Edmonton, AB
- Multiple Canada Post Terminals - Stouffville/Kitchener, ON & Dartmouth, NS
- Experimental Farm - Ottawa, ON
- Multiple RCMP Housing Projects- Canada Wide
- Governor Generals Residence- Ottawa, ON

### Resorts

- Panorama Resort - Invermere, British Columbia
- Caribou Lodge - Banff, Alberta
- Lake Louise Hotel - Lake Louise, Alberta

Over 100 different school projects to date including Ottawa of University, Sir Sanford Fleming Residence and Fanshaw

Over 400 Arena and Rec Center Projects including: George Leach Center (Sault Ste. Marie, ON), Wayne Gretzky Center (Brantford, ON), Bob Gale Arena (Niagara Falls, ON) and Barrhead Arena (Barrhead, AB)
DESCRIPTION / APPLICATION AND USE

3. SNOSTOP™ PENETRATING SNOW FENCE SYSTEMS
<table>
<thead>
<tr>
<th>PRODUCT CATEGORY</th>
<th>SUB CATEGORY</th>
<th>PRODUCT DESCRIPTION</th>
<th>APPLICATION</th>
<th>USAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snostop™ Snow Fence Systems</td>
<td>Color Matched Paint Finish or Mill Finish</td>
<td><strong>Snow Guard Tubes and Brackets</strong>&lt;br&gt;Color Matched to Manufacturer Finish</td>
<td>Snostop™ snow guard systems are available in mill finish or color matched to any metal manufacturers paint finish in our state of the art paint shop. Baked Enamel Coatings can be Matched to Exact Manufacturer Finish or any Color selected by Architect.</td>
<td>Perfect for controlling snow while blending perfectly with any color roof finish.</td>
</tr>
<tr>
<td>Snostop™ Snow Fence Systems</td>
<td>Snostop™ Penetrating Snow Fence Systems</td>
<td>1. Zinc Die-Casting Brackets, Swaged Galvalume Tubes with end-of-row pins&lt;br&gt;2. #14 Stainless Steel tapping screws with s.s. and neoprene washer.&lt;br&gt;3. <em>Optional:</em> Sheet metal “Ice Dam” centered in the middle of the panel to prevent sliding ice. Use over pedestrian areas or on areas needing additional protection.</td>
<td>Snostop™ SMA (small bracket) and LGA (large bracket) snow retention systems are screwed through exposed fastened metal roofs into substructure. 2. Coordinate with the installation of the metal roofing system to assure the proper fastening of the metal roof to the substructure.&lt;br&gt;3. Provide all necessary components: Brackets, Tubes, #14 Stainless Steel tapping Screws with s.s. washer and neoprene washer, complete with pilot drill bit.</td>
<td>1. Metal roofing must be a minimum of 24 ga. steel.&lt;br&gt;2. All loads incurred by the Snostop™ will be transferred to the substructure (purlins, plywood, etc.). Therefore, proper fastener attachment to substrate/structure is necessary to prevent the snow retention system from failing under snow load conditions.</td>
</tr>
<tr>
<td>Snostop™ Snow Fence Systems</td>
<td>Snostop™ Small Penetrating Snow Guard Brackets</td>
<td>Snostop SMA Small Bracket Penetrating System</td>
<td>Snostop™ SMA (small snow brackets) for <em>penetrating roof systems</em> facilitate a 2 way bracket design which allows the brackets to be mechanically fastened directly through the roof substrate either vertically or horizontally. Aluminum-zinc die-cast brackets designed to be mechanically fastened using #14 Stainless Steel (s.s) tapping Screws with s.s. washer and neoprene washer.</td>
<td>Designed to control snow on flat seam metal roofing, asphalt shingle roofing, composite and artificial slates and shakes. Designed for mechanical attachment directly through the roofing substrate and sheathing in to structural support members below.</td>
</tr>
</tbody>
</table>
| Snostop™ Snow Fence Systems | Snostop™ Small Penetrating Snow Guard Brackets and 1 Tube System | Snostop SMA-1T snow bracket with 2 tubes for *penetrating roof systems*. Designed to be mechanically fastened directly through the roof substrate either *vertically* or *horizontally*  
Includes all necessary components: Brackets, Tubes, #14 Stainless Steel tapping Screws with s.s. washer and neoprene washer, complete with pilot drill bit. | Designed to control snow on flat seam metal roofing, asphalt shingle roofing, composite and artificial slates and shakes. |
|----------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Snostop™ Snow Fence Systems | Snostop™ Small Penetrating Snow Guard Brackets and 1 Tube System with Ice Dam | Snostop SMA-1T snow bracket with 2 tubes for *penetrating roof systems*. Designed to be mechanically fastened directly through the roof substrate either *vertically* or *horizontally*  
Includes all necessary components: Brackets, Tubes, #14 Stainless Steel tapping Screws with s.s. washer and neoprene washer, complete with pilot drill bit. | Designed to control snow on flat seam metal roofing, asphalt shingle roofing, composite and artificial slates and shakes. |
| Snostop™ Snow Fence Systems | Snostop™ Small Penetrating Snow Guard Brackets and 2 Tube System | Snostop SMA-2T snow bracket with 2 tubes for *penetrating roof systems*. Designed to be mechanically fastened directly through the roof substrate either *vertically* or *horizontally*  
Includes all necessary components: Brackets, Tubes, #14 Stainless Steel tapping Screws with s.s. washer and neoprene washer, complete with pilot drill bit. | Designed to control snow on flat seam metal roofing, asphalt shingle roofing, composite and artificial slates and shakes. |
<table>
<thead>
<tr>
<th>Snostop™ Snow Fence Systems</th>
<th>Snostop™ Medium Penetrating Snow Guard Brackets</th>
<th>Snostop™ MDB (medium snow brackets) for <strong>penetrating roof systems</strong> facilitate a 2 way bracket design which allows the brackets to be mechanically fastened directly through the roof substrate either <strong>vertically or horizontally</strong>. Aluminum-zinc die-cast brackets designed to be mechanically fastened using #14 Stainless Steel (s.s) tapping Screws with s.s. washer and neoprene washer. Designed to control snow on flat seam metal roofing, asphalt shingle roofing, composite and artificial slates and shakes. Designed for mechanical attachment directly through the roofing substrate and sheathing in to structural support members below.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snostop™ Snow Fence Systems</td>
<td>Snostop™ Medium Penetrating Snow Guard Brackets and 2 Tube System</td>
<td>Snostop MDB-2T snow bracket with 2 tubes for <strong>penetrating roof systems</strong>. Designed to be mechanically fastened directly through the roof substrate either <strong>vertically or horizontally</strong>. Includes all necessary components: Brackets, Tubes, #14 Stainless Steel tapping Screws with s.s. washer and neoprene washer, complete with pilot drill bit. Designed to control snow on flat seam metal roofing, asphalt shingle roofing, composite and artificial slates and shakes.</td>
</tr>
<tr>
<td>Snostop™ Snow Fence Systems</td>
<td>Snostop™ Medium Penetrating Snow Guard Brackets and 3 Tube System</td>
<td>Snostop MDB-3T snow bracket with 2 tubes for <strong>penetrating roof systems</strong>. Designed to be mechanically fastened directly through the roof substrate either <strong>vertically or horizontally</strong>. Includes all necessary components: Brackets, Tubes, #14 Stainless Steel tapping Screws with s.s. washer and neoprene washer, complete with pilot drill bit. Designed to control snow on flat seam metal roofing, asphalt shingle roofing, composite and artificial slates and shakes.</td>
</tr>
</tbody>
</table>
| **Snostop™ Snow Fence Systems** | **Snostop™ Large Penetrating Snow Guard Brackets** | **Snostop LGA Large Snow Brackets** for *penetrating roof systems* facilitate a 2 way bracket design which allows the brackets to be mechanically fastened directly through the roof substrate either *vertically or horizontally*.  

Includes all necessary components: Brackets, Tubes, #14 Stainless Steel tapping Screws with s.s. washer and neoprene washer, complete with pilot drill bit. |
<table>
<thead>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Snostop_LGA-2T_Large Bracket-Penetrating 2 Tube System</td>
<td>Designed to control snow on flat seam metal roofing, asphalt shingle roofing, composite and artificial slates and shakes. Designed for mechanical attachment directly through the roofing substrate and sheathing in to structural support members below. Use over pedestrian areas or on areas needing additional protection.</td>
</tr>
</tbody>
</table>
| **Snostop™ Snow Fence Systems** | **Snostop™ Large Penetrating Snow Guard Bracket and 2 Tube System** | **Snostop LGA-2T** system incorporates large snow brackets for *penetrating roof systems and* facilitates our 2 way bracket design which allows the brackets to be mechanically fastened directly through the roof substrate either *vertically or horizontally*.  

Includes all necessary components: Brackets, Tubes, #14 Stainless Steel tapping Screws with s.s. washer and neoprene washer, complete with pilot drill bit. |
|  | Snostop_LGA-4T_Large Bracket-Penetrating 4 Tube System | Designed to control snow on flat seam metal roofing, asphalt shingle roofing, composite and artificial slates and shakes. Designed for mechanical attachment directly through the roofing substrate and sheathing in to structural support members below. Use over pedestrian areas or on areas needing additional protection. |
| **Snostop™ Snow Fence Systems** | **Snostop™ Large Penetrating Snow Guard Bracket and 4 Tube System** | **Snostop LGA-4T** system incorporates large snow brackets for *penetrating roof systems and* facilitates our 2 way bracket design which allows the brackets to be mechanically fastened directly through the roof substrate either *vertically or horizontally*.  

Includes all necessary components: Brackets, Tubes, #14 Stainless Steel tapping Screws with s.s. washer and neoprene washer, complete with pilot drill bit. |
DESCRIPTION / APPLICATION AND USE

4. SNOSTOP™ NON PENETRATING SNOW FENCE SYSTEMS
<table>
<thead>
<tr>
<th>PRODUCT CATEGORY</th>
<th>SUB CATEGORY</th>
<th>PRODUCT DESCRIPTION</th>
<th>APPLICATION</th>
<th>USAGE</th>
</tr>
</thead>
</table>
2. Galvalume Steel Tubes with swaged ends, 8-ft sections, c/w end-of-row pins. | 1. **Snostop™** non-‐penetrating snow fence system consisting of Zinc Die-Casting Brackets, Swaged Galvalume Tubes with end-‐of row pins.  
2. 3/8-‐UNC Stainless Steel set screws, cup point.  
3. **Optional:** Sheet metal “Ice Dam” centered between two brackets to prevent sliding ice. Use over pedestrian areas or on areas needing additional protection. | 1. Metal roofing must be a minimum of 24 ga. steel.  
2. All loads incurred by the SNOSTOP will be transferred to the panels via standing seams; therefore proper panel attachment to substrate/structure is necessary to prevent roof panels from sliding under snow load. It is important to design new structures or assess the existing structure to make sure that it can withstand retained snow loads. |
| **Snostop™ Snow Fence Systems** | **Snostop™ Small Non Penetrating Snow Guard Brackets.** | **Snostop™ SMA-SS (small snow brackets) for non penetrating roof applications.** Bracket design allows the brackets to be mechanically fastened to roof seams without any penetrations  
Aluminum-Zinc Die-Casting Brackets use stainless steel cup-‐point set screws and torque limiting socket for optimum performance. | Designed to control snow on standing seam metal roofing, without penetration of standing seam metal roof panels.  
Use over pedestrian areas or on areas needing additional protection. | |
| Snostop™ Snow Fence Systems | Snostop™ Small Non Penetrating Snow Guard Brackets and 1 Tube System | 1. **SNOSTOP SMA-SS-TL** is 1 Tube System for non-penetrating roof applications. Bracket design allows the brackets to be mechanically fastened to roof seams without any penetrations. Consists of Zinc Die-Casting Brackets, Swaged Galvalume Tubes with end-of-row pins.  
| Snostop™ Snow Fence Systems | Snostop™ Small Non Penetrating Snow Guard Brackets and 2 Tube System | Designed to control snow on standing seam metal roofing, without penetration of standing seam metal roof panels. Use over pedestrian areas or on areas needing additional protection. | Designed to control snow on standing seam metal roofing, without penetration of standing seam metal roof panels. Use over pedestrian areas or on areas needing additional protection. |

![Snostop_SMA-SS-TL_Standing Seam Single Tube System.jpg](attachment:Snostop_SMA-SS-TL_Standing Seam Single Tube System.jpg)

![Snostop_SMA-SS-2T_Standing Seam Single Tube System.jpg](attachment:Snostop_SMA-SS-2T_Standing Seam Single Tube System.jpg)
<table>
<thead>
<tr>
<th>Snostop™ Snow Fence Systems</th>
<th>Snostop™ Large Non Penetrating Snow Guard Brackets.</th>
<th>Snostop™ LGA-SS (large snow brackets) for non penetrating roof applications. Bracket design allows the brackets to be mechanically fastened to roof seams without any penetrations. Aluminum-Zinc Die-Casting Brackets use stainless steel cup-point set screws and torque limiting socket for optimum performance.</th>
<th>Designed to control snow on standing seam metal roofing, without penetration of standing seam metal roof panels. Use over pedestrian areas or on areas needing additional protection.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snostop™ Snow Fence Systems</td>
<td>Snostop™ Large Penetrating Snow Guard Bracket and 2 Tube System</td>
<td>1. SNOSTOP LGA-SS-2T is a 2 Tube System for non penetrating roof applications. Bracket design allows the brackets to be mechanically fastened to roof seams without any penetrations. Consists of Zinc Die-Casting Brackets, Swaged Galvalume Tubes with end-of row pins. 2. Aluminum-Zinc Die-Casting Brackets use 3/8-UNC stainless steel cup-point set screws and torque limiting socket for optimum fastening and safe performance.</td>
<td>Designed to control snow on standing seam metal roofing, without penetration of standing seam metal roof panels. Use over pedestrian areas or on areas needing additional protection.</td>
</tr>
</tbody>
</table>

**Snostop LGA-SS Large Bracket Non Penetrating.**

**Snostop Large Bracket_LGA-SS-2T_ Non Penetrating 2 Bar System**
DESCRIPTION / APPLICATION AND USE

5. SNOSTOP™ POLYCARBONATE SNOW GUARD SYSTEMS
<table>
<thead>
<tr>
<th>PRODUCT CATEGORY</th>
<th>SUB CATEGORY</th>
<th>PRODUCT DESCRIPTION</th>
<th>APPLICATION</th>
<th>USAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snostop Plus™ Snow Guard Systems with Heat Cable Option</td>
<td>Snostop Plus™ Penetrating or Non Penetrating Polycarbonate Snow Guards with Heat Trace Cable Option</td>
<td>Snostop Plus™ is a patented polycarbonate snow guard with the unique option of adding ice cable to melt snow on the roof while holding it in place. It is well suited to both non-penetrating and penetrating roof applications. Snostop Plus™ features a unique design which allows the brackets to be mechanically or adhesive mounted to a wide range of roof surfaces with or without roof penetrations.</td>
<td>Designed to both control and melt snow using integrated heat cable on flat or standing seam metal roofs, asphalt shingle roofs, composite and artificial slates and shakes. Designed for mechanical attachment directly through the roofing substrate and sheathing in to structural support members below.</td>
<td></td>
</tr>
</tbody>
</table>
6. ARCHITECTURAL DRAWINGS - SNOSTOP™ PENETRATING SNOW FENCE SYSTEMS
SNOSTOP SMA-1T

Roofers World Inc.

“USA Patent No. 6,453,623 . Other Patents Pending”
**SNOSTOP SMB-1T**

Roofers World Inc.

"USA Patent No. 6,453,623. Other Patents Pending"

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**Table: Bracket Spacing and Load Capacity**

<table>
<thead>
<tr>
<th>Bracket Spacing [in]</th>
<th>12</th>
<th>15</th>
<th>18</th>
<th>20</th>
<th>22</th>
<th>24</th>
<th>26</th>
<th>28</th>
<th>30</th>
<th>32</th>
<th>36</th>
<th>42</th>
<th>48</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load Capacity [lb]</td>
<td>850</td>
<td>850</td>
<td>808</td>
<td>727</td>
<td>661</td>
<td>606</td>
<td>560</td>
<td>519</td>
<td>485</td>
<td>454</td>
<td>404</td>
<td>346</td>
<td>303</td>
</tr>
</tbody>
</table>
INSTALL PINS AT END OF FENCE TO PREVENT TUBES FROM SLIDING OUT

RAPER LENGTH

PITCH

PAINTED TO MATCH ROOF COLOUR

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
<td>#14 TYPE A, SS TAPPING SCR. 6&quot; LG, NEOPR. WSHR</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>GALV.STLTUBE, 1.50&quot;OD x 0.065&quot;THK, 8'-FT LG</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>MEDIUM ZINC BRACKET</td>
<td></td>
</tr>
</tbody>
</table>

BILL OF MATERIAL

DRAWN BY: N. Yao  DATE: 04 Apr 2011

SNOSTOP  A DIVISION OF ROOFERS WORLD INC.

SNO6-2T SNOSTOP SYSTEM
TYPICAL INSTALLATION OF ONE BRACKET

S110404-2  ISSUE A

SCALE NTI  JOB REF

SHEET 1/1
PAINTED TO MATCH ROOF COLOUR

#14 TYPE A, SS TAPPING SCR, 6" LG, NEO PR. WSHR
GALV. STL. TUBE, 1.50" OD x 0.065" THK, 8' FT LG
1 1 MEDIUM ZINC BRACKET

BILL OF MATERIAL

SNOSTOP A DIVISION OF ROOFERS WORLD INC.

MD03-SNOSTOP SYSTEM
TYPICAL INSTALLATION OF ONE BRACKET

S110404-1

DECADES ANGLES HOLES
XX 4 2 2
SNOSTOP LGA-2T

BRACKET SPACING [in]  12  15  18  20  22  24  26  28  30  32  36  42  48
LOAD CAPACITY [lb]  2424  1940  1616  1454  1322  1212  1120  1038  970  908  808  692  606
ICE DAM ON TUBE
PLACED BETWEEN BRACKETS

ICE DAM
20GA GALVANIZED SHT. METAL

2.0

1.75

13 MARCH 2003

SNOSTOP
A DIVISION OF
ROOFERS WORLD INC.

ICE DAM FOR TUBE
<table>
<thead>
<tr>
<th>BRACKET SPACING [in]</th>
<th>12</th>
<th>15</th>
<th>18</th>
<th>20</th>
<th>22</th>
<th>24</th>
<th>26</th>
<th>28</th>
<th>30</th>
<th>32</th>
<th>36</th>
<th>42</th>
<th>48</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAD CAPACITY [lb]</td>
<td>2950</td>
<td>2910</td>
<td>2424</td>
<td>2181</td>
<td>1983</td>
<td>1818</td>
<td>1680</td>
<td>1557</td>
<td>1455</td>
<td>1362</td>
<td>1212</td>
<td>1038</td>
<td>909</td>
</tr>
</tbody>
</table>

SNOSTOP LGB-3T

ZINC BRACKET, TUMBLE FINISH OR PAINTED

1.5" OD x 0.065" WALL GALVANIZED TUBE, FINISH PAINTED, SWAGED ENDS

(6) #14 SELF-TAPPING S.S. SCREW AND WASHER,
DREDrill #1 (20.228) THROUGH STRUCTURAL MEMBER

SNOSTOP A SUBSIDIARY OF ROOFERS WORLD INC.

LGB-3T
TRIPLE TUBE PENETrATING SYSTEM
BRACKET SPACING [in]  |  12  |  15  |  18  |  20  |  22  |  24  |  26  |  28  |  30  |  32  |  36  |  42  |  48  
LOAD CAPACITY [lb]     |  2950 |  2950 |  2950 |  2908 |  2644 |  2424 |  2240 |  2076 |  1940 |  1816 |  1616 |  1384 |  1212

**SNOSTOP LGB-4T**

- **Zinc Bracket, Tumble Finish or Painted**
- 1.5 OD x 0.065" WALL GALVALUME TUBE FINISH PAINTED, SWAGED ENDS
- 6.24"

**SNOSTOP A BRANCH OF ROOFERS WORLD INC.**

**LGB-4T**
QUADRUPLE TUBE PENETRATING SYSTEM

(6) #14 SELF-TAPPING S.S. SCREW AND WASHER DRED DRILL #1 (.0228) THROUGH STRUCTURAL MEMBER
7. ARCHITECTURAL DRAWINGS - SNOSTOP™ NON PENETRATING SNOW FENCE SYSTEMS
SNOSTOP SMA-SS-TL

1.5" OD x 0.065" WALL GALVALUME TUBE, FINISH PAINTED, SWAGED ENDS

ZINC BRACKET TUMBLE FINISH, OR PAINTED

WELDED SLOT

ALUMINUM EXTRUSION

3/8-UNC S.S. SET SCREWS

BRACKET SPACING [in] | 12 | 15 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 36 | 42 | 48
LOAD CAPACITY [lb] | 1212 | 970 | 808 | 727 | 661 | 606 | 560 | 519 | 485 | 454 | 404 | 346 | 303
NO. OF SET SCR. PAIRS | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1
SNOSTOP SMA-SS-2T

BRACKET SPACING [in] 12 15 18 20 22 24 26 28 30 32 36 42 48
LOAD CAPACITY [lb] 2350 1940 1616 1454 1322 1212 1120 1038 970 908 808 692 606
NO. OF SET SCR, PAIRS 3 3 2 1 2 2 2 2 2 1 1 1

ZINC BRACKET TUMBLE FINISH OR PAINTED
CRIMPED/WELDED SLOT PREVENTS BRACKET MOVEMENT
1.5" OD X 0.085" WALL GALVALUME TUBE FINISH PAINTED SWAGED ENDS
3/8-UNC S.S. SET SCREWS QUANTITY DEPENDS ON LOAD AND TYPE OF STANDING SEAM

SNOSTOP A DIVISION OF ROOFERS WORLDS INC.
DOUBLE TUBE NON-PENETRATING SYSTEM

CHECKED BY DATE 30 OCT 2002
A KRPKA TITLE

MATERIAL

SMA-SS-2T

M0264 SHEET 1/1
**SNOSTOP SMA-SS-2T-ID**

1. **Bracket Spacing [in]**
   - 12
   - 15
   - 18
   - 20
   - 22
   - 24
   - 26
   - 28
   - 30
   - 32
   - 36
   - 42
   - 48

2. **Load Capacity [lb]**
   - 2350
   - 1940
   - 1616
   - 1454
   - 1322
   - 1212
   - 1120
   - 1038
   - 970
   - 908
   - 808
   - 692
   - 606

3. **No. of Set Scr, Pairs**
   - 3
   - 3
   - 2
   - 1
   - 2
   - 2
   - 2
   - 2
   - 2
   - 1
   - 1
   - 1

**Aluminum Extrusion**

**Ice Dam**
20GA Galvanized SHt. Metal

**Ice Dam Placed in Bracket Mid-Span**

**1.5" OD x 0.085" Wall Galvalume Tube, Finish Painted, Swaged Ends**

**Zinc Bracket Tumble Finish or Painted**

**Crimped/Welded Slot Prevents Bracket Movement**

**Standing Seam Metal Roof**

**3/8 UNC S.S. Set Screws**
Quantity depends on load and type of standing seam
SNOSTOP SMA-SS-TL

SNOSTOP A DIVISION OF ROOFERS WORLD INC.

SMA-SS-TL
SINGLE TUBE NON-PENETRATING SYSTEM
SNOSTOP LGA-SS-2T

**BRACKET SPACING [in]**
- 12
- 15
- 18
- 20
- 22
- 24
- 26
- 28
- 30
- 32
- 36
- 42
- 48

**LOAD CAPACITY [lb]**
- 2424
- 1940
- 1616
- 1454
- 1322
- 1212
- 1120
- 1038
- 970
- 908
- 808
- 692
- 606

**NO. OF SET SCR, PAIRS**
- 3
- 3
- 2
- 2
- 2
- 2
- 2
- 2
- 2
- 1
- 1
- 1
- 1

---

**ZINC BRACKET TUMBLE FINISH**
**OR PAINTED**

**CRIMPED & WELDED SLOT**

1.5" OD x 0.065" WALL GALVALUME TUBE
FINISH PAINTED, SWAGED ENDS

3/8-UNC S.S. SET SCREWS, QUANTITY DEPENDS ON LOAD AND TYPE OF STANDING SEAM

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**SNOSTOP**
A BRANCH OF ROOFERS WORLD INC.

**LGA-SS-2T**
DOUBLE TUBE NON-PENETRATING SYSTEM

**DESIGN BY:** J. KRUPKA

**DATE:** 1 FEB 2002

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**NOTES**

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SNOSTOP LGA-SS-2T

BRACKET SPACING [in] | 12 | 15 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 36 | 42 | 48
---|---|---|---|---|---|---|---|---|---|---|---|---|---
LOAD CAPACITY [lb] | 2424 | 1940 | 1616 | 1454 | 1322 | 1212 | 1120 | 1038 | 970 | 908 | 808 | 692 | 606
NO. OF SET SCR. PAIRS | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1

ALUMINUM EXTRUSION

ZINC BRACKET TUMBLE FINISH, OR PAINTED

CRIMPED & WELDED SLOT

3/8-UNC S.S. SET SCREWS, QUANTITY DEPENDS ON LOAD AND TYPE OF STANDING SEAM

1.5'' OD x 0.065'' WALL GALVALUME TUBE, FINISH PAINTED, SWAGED ENDS

SNOSTOP A DIVISION OF ROOFERS WORLD INC.

SNOSTOP DOUBLE TUBE NON-PENETRATING SYSTEM

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UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES.
8. CSI SPEC SHEET  SNOSTOP™ PENETRATING SNOW FENCE SYSTEMS
PART 1 - GENERAL

1.1 SUMMARY
   A. WORK INCLUDES:
      1. SNOSTOP snow retention system that screws through exposed fastened metal roofs into structure.
      2. Coordinate with the installation of the metal roofing system to assure the proper fastening of the metal roof to the substructure.
      3. Provide all necessary components: Brackets, Tubes, #14 Stainless Steel tapping Screws with s.s. washer and neoprene washer, complete with pilot drill bit.
   B. RELATED SECTIONS:
      1. Section 07410: Preformed Metal Roofing
      2. Section 07600: Flashing and Sheet Metal

1.2 SYSTEM DESCRIPTION
   A. COMPONENTS:
      1. Zinc Die-Casting Brackets, Swaged Galvalume Tubes with end-of-row pins
      2. #14 Stainless Steel tapping screws with s.s. and neoprene washer.
      3. Optional: Sheet metal “Ice Dam” centered in the middle of the panel to prevent sliding ice. Use over pedestrian areas or on areas needing additional protection.
   B. DESIGN REQUIREMENTS:
      1. Bracket spacing and loading is based on specific project design.
      2. Based on snow load, climatic conditions, length of roof panel and width of panel; multiple rows of SNOSTOP may be needed.
   C. METAL ROOFING AND SUBSTRATE CRITERIA:
      1. Metal roofing must be a minimum of 24 ga. steel.
      2. All loads incurred by the SNOSTOP will be transferred to the substructure (purlins, plywood, etc.). Therefore, proper fastener attachment to substrate/structure is necessary to prevent the snow retention system from failing under snow conditions. *(Architect Note: Add this requirement to Metal Roofing Section)*

1.3 SUBMITTAL - Submit Manufacturer's specifications, detail shop drawings and installation instructions.

1.4 QUALITY ASSURANCE - Installer to be experienced in the installation of metal roofing and snow retention systems for a period of not less than 5 years in the area of the project.

1.5 DELIVERY/STORAGE/HANDLING - Inspect material upon delivery and order replacements for any missing or defective items. Keep material dry, covered and off the ground until installed.
PART 2 - PRODUCTS

2.1 MANUFACTURER
   A. SNOSTOP by Roofers World, Ottawa, ON, Canada, 1.800.352.6147x102

2.2 MATERIALS
   A. Aluminum-Zinc Die-Casting Brackets
   B. Galvalume Steel Tubes with swaged ends, 8-ft sections, c/w end-of-row pins.
   C. Stainless Steel #14 tapping screws with s.s. and neoprene washers, c/w pilot drill bit.

2.3 FINISH
   A. Enamel Painted. Color to match metal roof or as selected by Architect
   B. Unpainted Zinc - finish.
   C. Metal plated (copper, etc.)

PART 3 - EXECUTION

3.1 EXAMINATION
   A. Substrate: Inspect roof system to be properly attached and installed to withstand additional loadings incurred. Notify General Contractor of any deficiencies before installing SNOSTOP.

3.2 INSTALLATION
   A. Comply with architectural drawings for location and with Manufacturer's shop drawings and instructions for assembly, installation and erection.

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9. CSI SPEC SHEET SNOSTOP™ NON PENETRATING SNOW FENCE SYSTEMS
SECTION 07720 NON PENETRATING SNOW RETENTION SYSTEM

CSI SPECIFICATION SHEET

PART 1 - GENERAL

1.6 SUMMARY

A. WORK INCLUDES:
   1. SNOSTOP snow retention system that clamps directly to the standing seams without penetrating the roof system.
   2. Coordinate with the installation of the metal roofing system to assure the proper fastening of the metal roof to the substructure.
   3. Provide all necessary components: Brackets, Tubes, Set Screws.

B. RELATED SECTIONS:
   1. Section 07410: Preformed Metal Roofing
   2. Section 07600: Flashing and Sheet Metal

1.7 SYSTEM DESCRIPTION

A. COMPONENTS:
   1. SNOSTOP System consisting of Zinc Die-Casting Brackets, Swaged Galvalume Tubes with end-of-row pins.
   2. 3/8-UNC Stainless Steel set screws, cup point.
   3. Optional: Sheet metal “Ice Dam” centered between two brackets to prevent sliding ice. Use over pedestrian areas or on areas needing additional protection.

B. DESIGN REQUIREMENTS:
   1. Bracket spacing and loading is based on specific project design.
   2. Based on snow load, climatic conditions, length of roof panel and width of panel; multiple rows of SNOSTOP may be needed.

C. METAL ROOFING AND SUBSTRATE CRITERIA:
   1. Metal roofing must be a minimum of 24 ga. steel.
   2. All loads incurred by the SNOSTOP will be transferred to the panels via standing seams; therefore proper panel attachment to substrate/structure is necessary to prevent roof panels from sliding under snow load. It is important to design new structures or assess the existing structure to make sure that it can withstand retained snow loads.
      (Architect Note: Add this requirement to Metal Roofing Section)
   3.

1.8 SUBMITTAL - Submit Manufacturer's specifications, detail shop drawings and installation instructions.
1.9 **QUALITY ASSURANCE** - Installer to be experienced in the installation of metal roofing and snow retention systems for a period of not less than 5 years in the area of the project.

1.10 **DELIVERY/STORAGE/HANDLING** - Inspect material upon delivery and order replacements for any missing or defective items. Keep material dry, covered and off the ground until installed.

**PART 2 - PRODUCTS**

2.4 **MANUFACTURER**
   A. SNOSTOP by Roofers World, Ottawa, ON, Canada, 1.800.352.6147x102

2.5 **MATERIALS**
   A. Aluminum-Zinc Die-Casting Brackets with stainless steel cup-point set screws and torque limiting socket.
   B. Galvalume Steel Tubes with swaged ends, 8-ft sections, c/w end-of-row pins.

2.6 **FINISH**
   A. Enamel Painted. Color to match metal roof or as selected by Architect
   B. Unpainted Zinc - finish.
   C. Metal Plated (copper, etc.)

**PART 3 - EXECUTION**

3.3 **EXAMINATION**
   A. Substrate: Inspect roof system to be properly attached and installed to withstand additional loadings incurred. Notify General Contractor of any deficiencies before installing SNOSTOP.

3.4 **INSTALLATION**
   A. Comply with architectural drawings for location and with Manufacturer's shop drawings and instructions for assembly, installation and erection.

Revised 06/2008
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**SNOSTOP™** ..... ALMOST AS MANY OPTIONS AS THERE ARE BUILDING DESIGNS!!