

D-ARS-600 SNOW GUARD FOR SLOPED METAL ROOFS

DESCRIPTION

The Thaler D-ARS-600 Snow Guard for sloped metal roofs consists of a series of aluminum posts mounted to hollow steel section structural struts. The struts are then bolted between and to the metal roof structural frame (Z-channels or C-channels by others) and the posts are flashed in using the new black colored Thaler D-100 EPDM flexible Flashing (see Thaler D-100 literature for complete data). After the posts and flashing have been installed, the cross rail assemblies are then progressively installed in sections.

Recommended Spacing: Posts - 48" (1220 mm) o.c. Distance from outside wall or eave to be determined by architect or structural engineer.

Prominent Features: Patented Thaler D-100 EPDM flashing Base Seal eliminates condensation and condensation build-up from below, and the EPDM Triple Pressure Grommet Seal eliminates flashing leaks from above (seals never, ever need caulking). D-100 installation also accommodates thermal movement constantly taking place in the structure or metal roofing. Aesthetically pleasing. Ensures structural sufficiency. Maintenance free.

Options: Can also be manufactured to suit corrugated roof panels. Same snow guard is available for BUR except Thaler metal STACK JACK with patented EPDM seals is employed in lieu of flexible flashing.

RECOMMENDED USE

For sloped standing seam metal roofs. Check Thaler for other standing seam roof systems.

WARRANTY

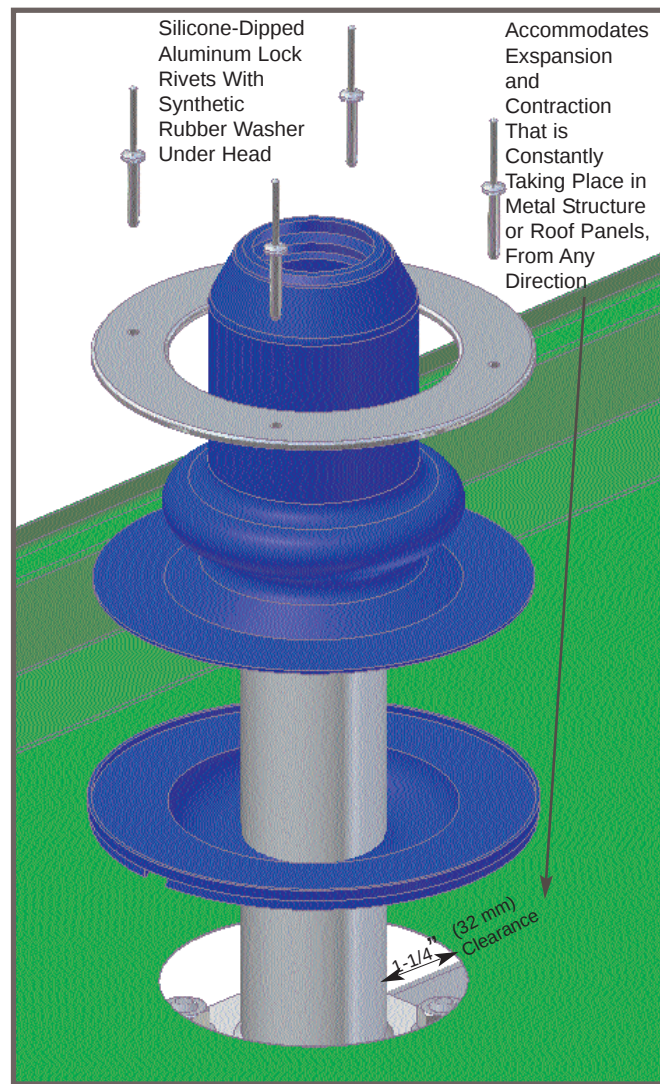
20 year warranty against **leaks, condensation and defects** in materials and/or manufacture when installed in accordance with Thaler "Installation Instructions". Copy of Warranty Certificate available upon request.

MAINTENANCE

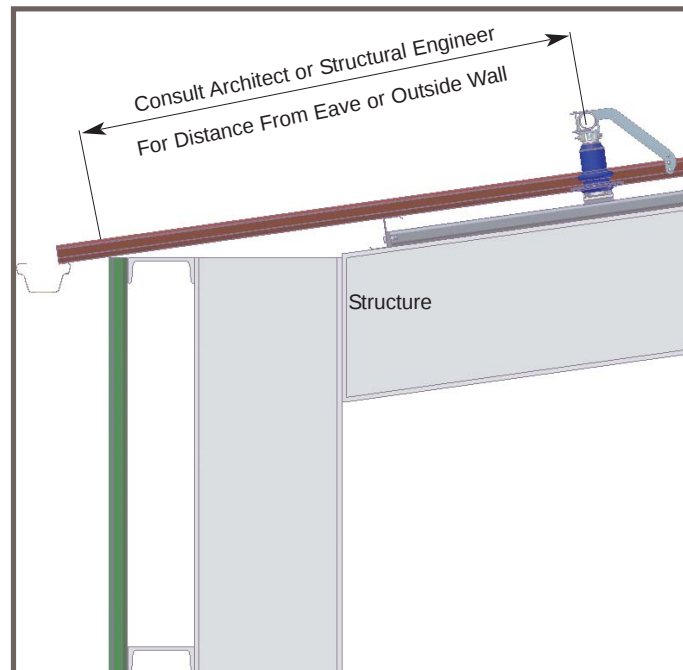
No maintenance required (maintenance free).

SPECIFICATION (Short Form)

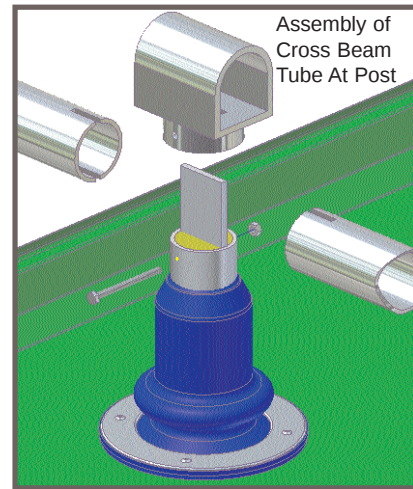
Snow Guards: Thaler D-ARS-600 snow guard for sloped standing seam metal roof system with 2" x 4" x 1/4" (51 x 102 x 6 mm) HSS struts having end plates for connecting to [Z-channels] [C-channels] using two 1/2" (12 mm) s.s. bolts both sides; 6061-T6 mill finish urethane insulated hollow alum. posts having 4" x 4" x 1/2" (102 mm x 102 mm x 12 mm) alum. and steel base plates welded to HSS struts (WITH EPDM DIVIDER TO PREVENT GALVANIC ACTION).



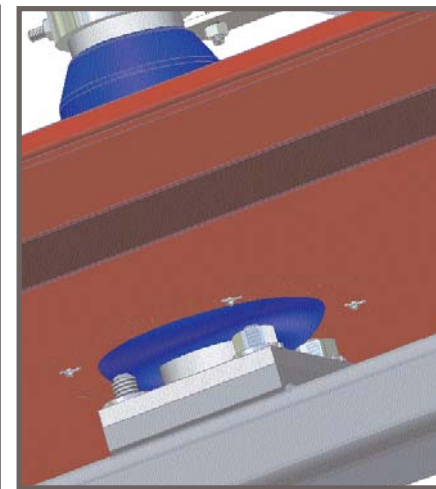
Exploded View Showing Thaler D-100 EPDM Flexible Flashing Assembly



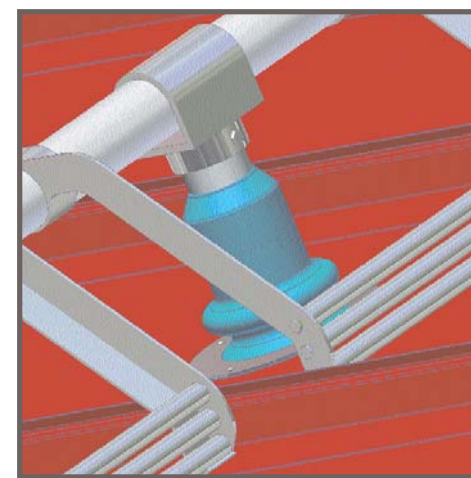
Section Detail At Eave



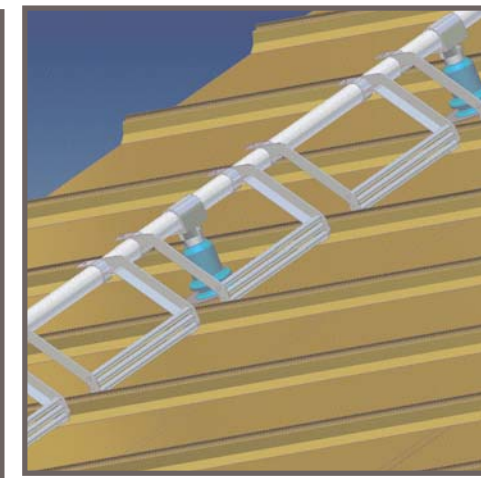
Close-Up View of Roof Support Post



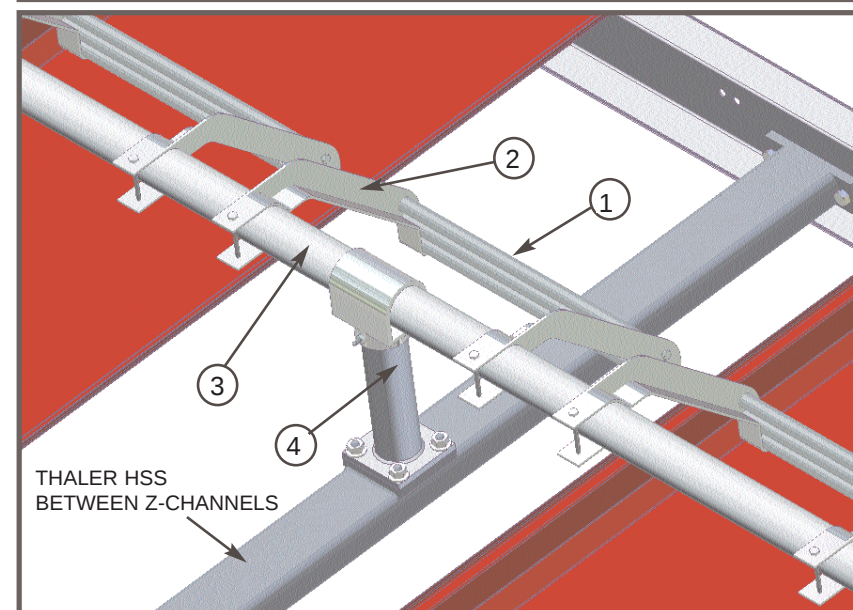
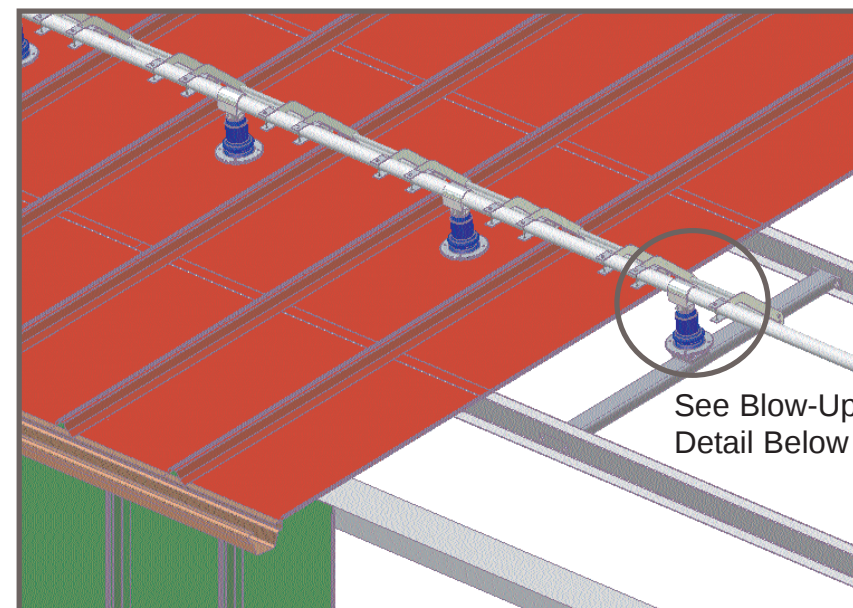
Underside of Roof Support Post Showing Hold-Down Ring Lock Rivets



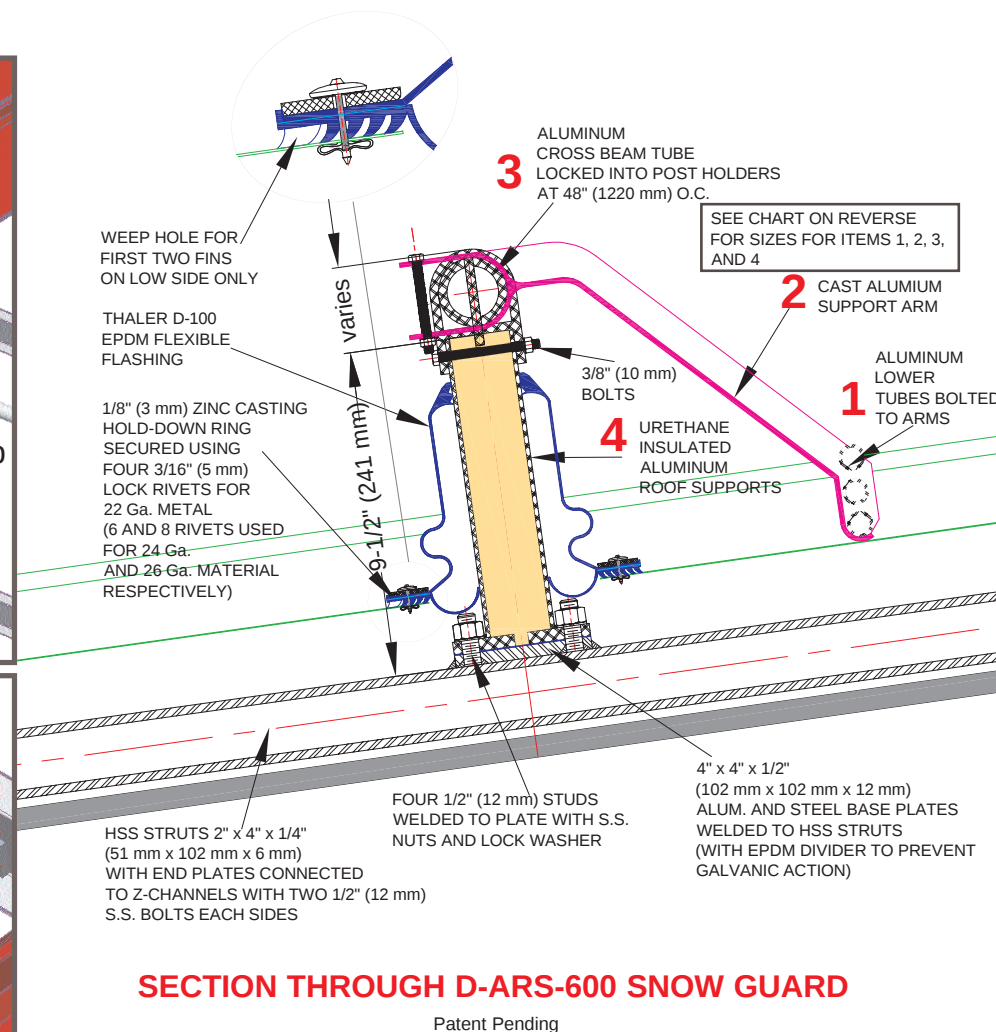
Close-Up View of Assembled Post Support



Long View of Snow Guard



D-ARS-600 Snow Guard & Roof Supports Showing HSS Bearing Member (Struts) Under Panel



SECTION THROUGH D-ARS-600 SNOW GUARD

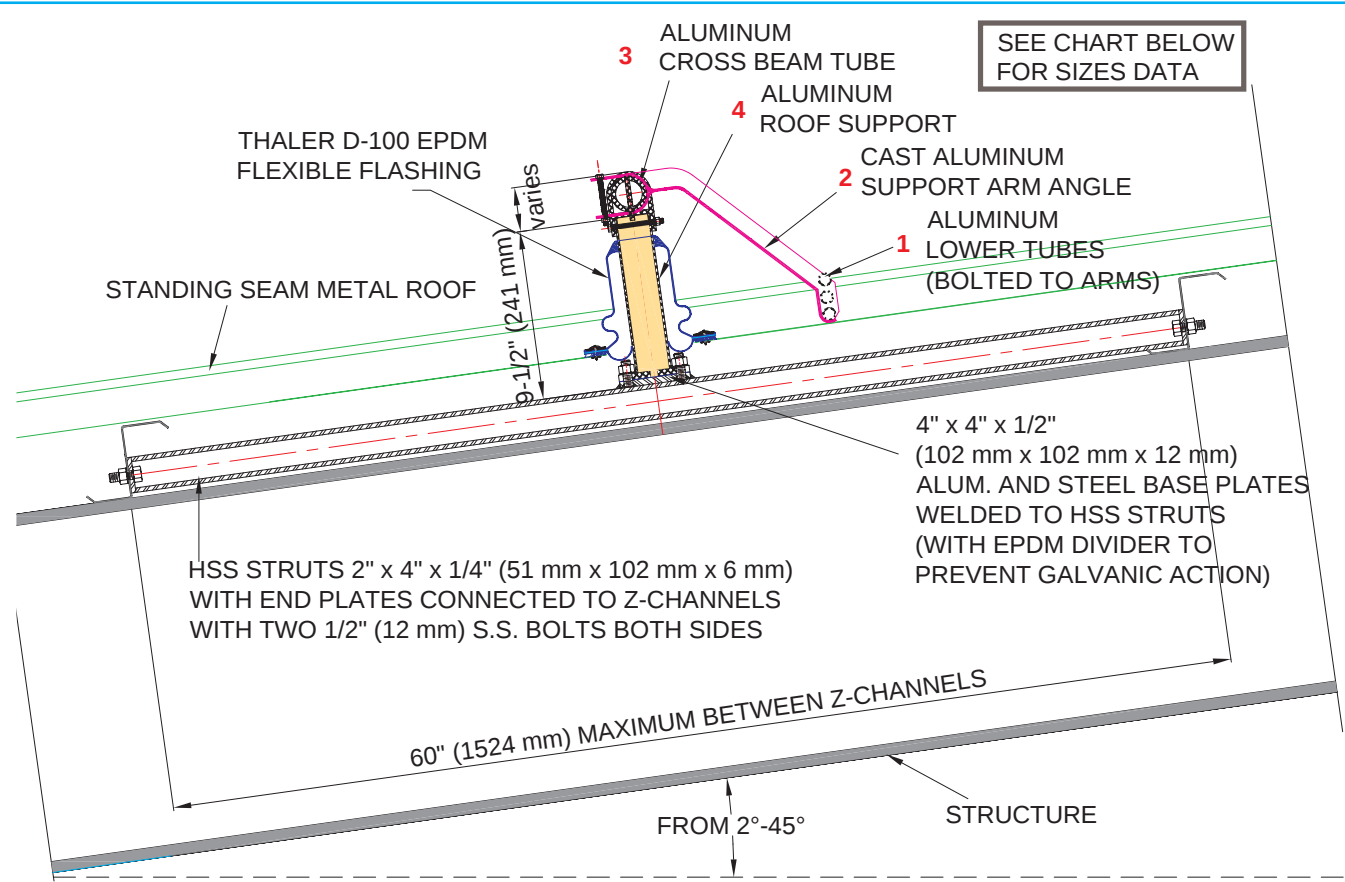
INSTALLATION

"Installation Instructions" are provided with every Thaler product. Essentially, the Thaler D-ARS-600 Snow Guard is installed by bolting the support post assemblies to the structural roof framing (Z or C channels), fitting the metal roof panels with hole cutouts over the posts, placing and sealing the flashing components using lock rivets, and finally assembling the arm/cross tube sections. The large cross beam tubes at the top of the snow guards are notched for locking into the post head holders to prevent the snow guard from lifting under load. The lower tube arm assemblies simply rest on the roof without any additional securing.

Location of Snow Guards: The distance from the eave or outside wall to snow guards is to be determined by the project architect or structural engineer, based upon roof slope and snow loads.

Ordering and Availability: Snow guards are fabricated to order based upon metal roofing profile. *For flat/ribbed profiles products are available as a stock items. Allow 3-4 months lead time for corrugated panel profiles after checking availability of Thaler stock items.*

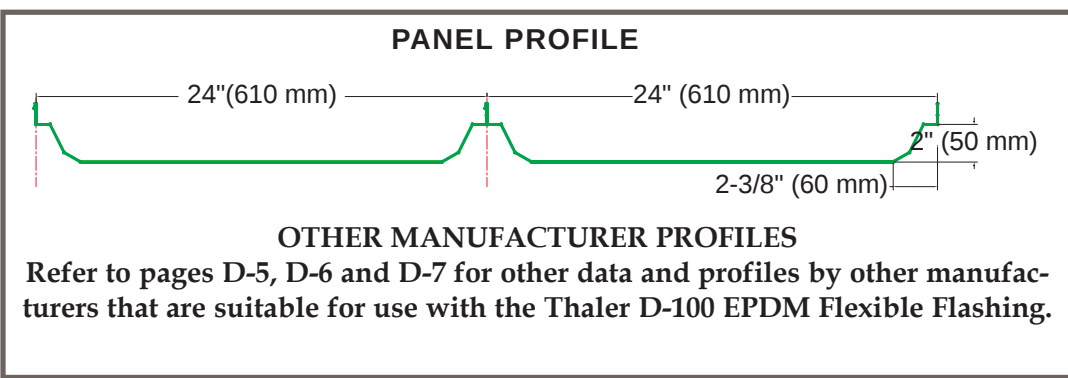
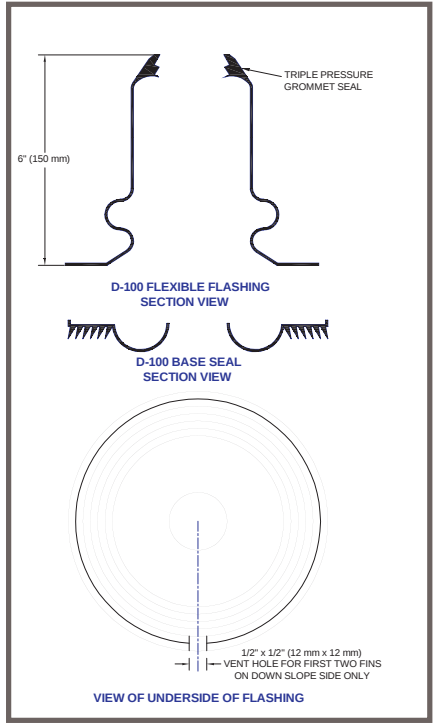
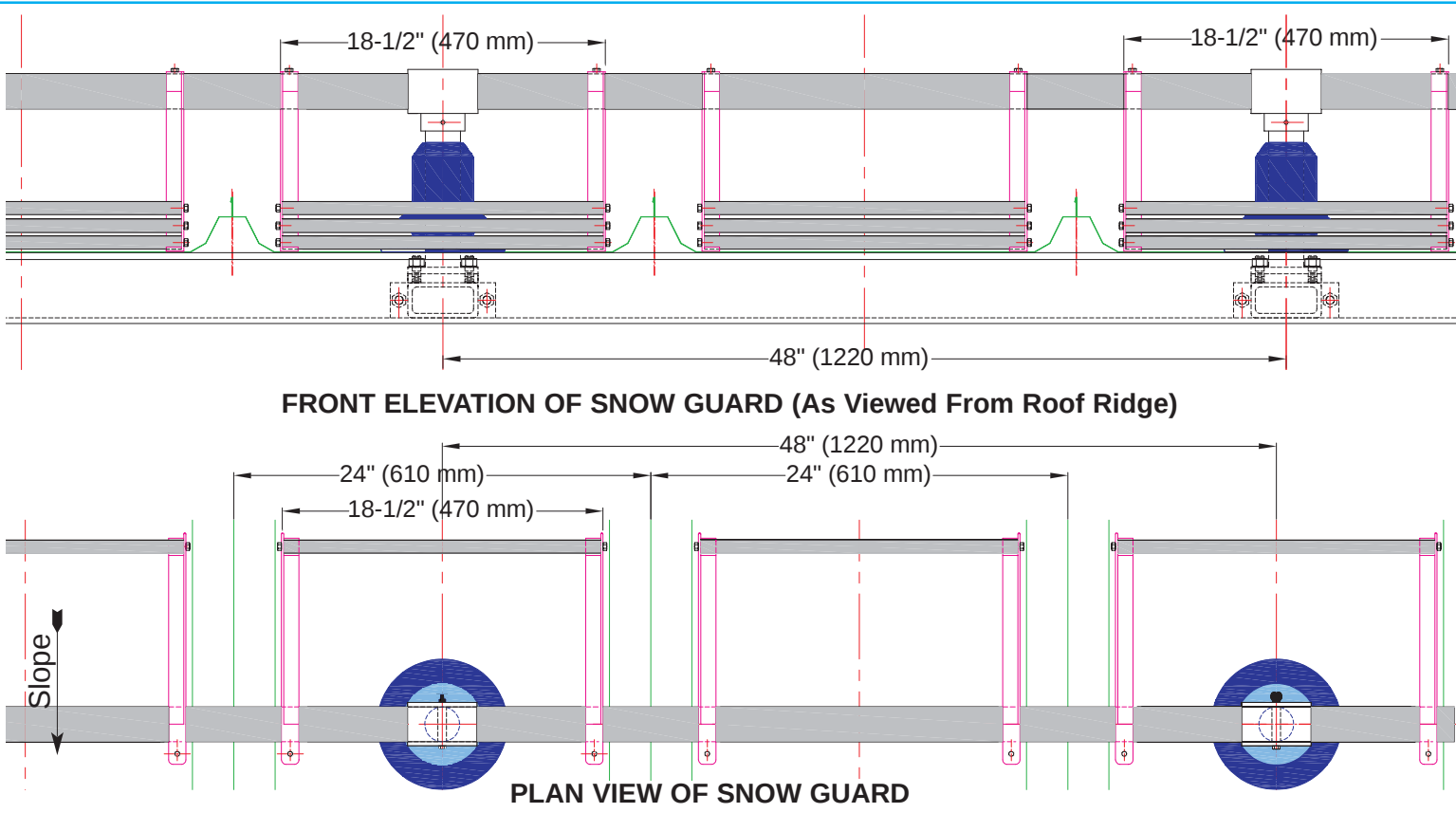
Available throughout North America. Contact Thaler for list of distributors and current cost information. Products may or may not be readily available from stock.



SECTION DETAIL THROUGH THALER D-ARS-600 SNOW GUARD AT Z-CHANNELS

SIZES DATA FOR SNOW GUARD ASSEMBLY												
Ground Snow Load			Roof Slope		1		2		3		4	
Severity	kN/m2	psf			Aluminum Lower Tubes 18-1/2" (470 mm) long		Cast Aluminum Support Arm Angle		Aluminum Cross Beam Tube 4'-0" (1220 mm) long		Aluminum Roof Support 8-3/4" (222 mm) high	
LOW	0.0 TO 1.9	0.0 TO 40.0	4:12	18.4 DEG.	O.D.= 0.75" (19 mm)	T= 0.085" (2 mm)	1" x 1" x 1/8" (25 mm x 25 mm x 3 mm)		O.D.= 2" (51 mm)	T= 0.25" (6 mm)	O.D.= 2" (51 mm)	T= 0.125" (3 mm)
			8:12	33.7 DEG.	O.D.= 0.75" (19 mm)	T= 0.112" (2.8 mm)	1-1/4" x 1-1/4" x 1/8" (32 mm x 32 mm x 3 mm)		O.D.= 2" (51 mm)	T= 0.3" (7.6 mm)	O.D.= 2" (51 mm)	T= 0.25" (6 mm)
			12:12	45 DEG.	O.D.= 0.75" (19 mm)	T= 0.115" (2.9 mm)	1-1/2" x 1-1/2" x 1/8" (38 mm x 38 mm x 3 mm)		O.D.= 2" (51 mm)	T= 0.36" (9 mm)	O.D.= 2" (51 mm)	T= 0.3" (7.6 mm)
MEDIUM	1.9 TO 3.0	40.0 TO 63.0	4:12	18.4 DEG.	O.D.= 0.75" (19 mm)	T= 0.112" (2.8 mm)	1-1/4" x 1-1/4" x 1/8" (32 mm x 32 mm x 3 mm)		O.D.= 2" (51 mm)	T= 0.3" (7.6 mm)	O.D.= 2" (51 mm)	T= 0.25" (6 mm)
			8:12	33.7 DEG.	O.D.= 0.75" (19 mm)	T= 0.115" (2.9 mm)	1-1/2" x 1-1/2" x 1/8" (38 mm x 38 mm x 3 mm)		O.D.= 2" (51 mm)	T= 0.36" (9 mm)	O.D.= 2" (51 mm)	T= 0.3" (7.6 mm)
			12:12	45 DEG.	O.D.= 0.75" (19 mm)	T= 0.125" (3 mm)	1-3/4" x 1-3/4" x 3/16" (44 mm x 44 mm x 5 mm)		O.D.= 2" (51 mm)	T= 0.5" (13 mm)	O.D.=2" (51 mm)	T=0.36" (9 mm)
HIGH	3.0 & OVER	63.0 & OVER	4:12	18.4 DEG.	O.D.= 0.75" (19 mm)	T= 0.115" (2.9 mm)	1-1/2" x 1-1/2" x 1/8" (38 mm x 38 mm x 3 mm)		O.D.= 2" (51 mm)	T= 0.36" (9 mm)	O.D.= 2" (51 mm)	T= 0.3" (7.6 mm)
			8:12	33.7 DEG.	O.D.= 0.75" (19 mm)	T= 0.125" (3 mm)	1-3/4" x 1-3/4" x 3/16" (44 mm x 44 mm x 5 mm)		O.D.= 2" (51 mm)	T= 0.375" (10 mm)	O.D.= 2" (51 mm)	T= 0.36" (9 mm)
			12:12	45 DEG.	O.D.= 0.75" (19 mm)	T= 0.188" (5 mm)	1-3/4" x 1-3/4" x 1/4" (44 mm x 44 mm x 6 mm)		O.D.= 2" (51 mm)	T= 0.5" (12 mm)	O.D.= 2" (51 mm)	T= 0.375" (10 mm)

* Refer to Thaler Ground Snow Loads & Depth of Snow Cover for North America literature. T= Thickness.



The Thaler D-100 EPDM Flexible Flashing

The Thaler D-100 EPDM Flexible Flashing is economical to purchase and install while providing a long-lasting watertight seal between the metal roof and a penetrating member. Its main feature is that the flashing does not suffer from a susceptibility to the build-up of condensation within the roof flashing. In the case of some roof flashing assemblies made in accordance with this invention, i.e. Thaler products, the insulation typically applied to the inside surface of the flashing is no longer necessary. Some construction professionals have trouble believing this claim, and insist on having urethane insulated flashings regardless, and we provide it at extra cost even though it is redundant. However, those professionals, and building owners, who are sold on Thaler EPDM flashings are enjoying a new level of comfort. These and other benefits are addressed by the new Thaler D-100 EPDM Flexible Flashing. (See Thaler D-100 EPDM Flexible Flashing literature).

Illustration Showing Base Seal Component on Underside of Metal Panel.

