



Date: 09/20/2002

Job: 02-008

Project: Snow Guard Testing

Re: PART NO. 115-3P

Attn: Mr. Alan Stearns
Alpine SnowGuards

P.O. Box 430

Stowe, VT 05672

Ph: (888)766 4273 Fax: (888)-766 9994

Re: Shear Force and Pull-out Force to resist a 2000 Pound load at 3.875 inch from Base.

Dear Mr. Stearns:

As you requested, we have determined the shear force and pull-out force needed to resist a Ton or 2000 pound load at the most critical location of the SnowGuard Part # 115-3P. The load is assumed to be applied at the most far pipe connection which is at 3.875 inches from the base.

Each fastener holding the system to the roof at six locations should resist a shear force of at least 350-Pounds and a pullout force of at least 800-Pounds.

{TO RESIST 2000 #[SHEAR/FASTENER=350#]--PULLOUT/FASTENER=800#}

Please feel free to contact me at 1-800 244 6131, if you have any questions or need further information.



Yours Truly,


Jacques B. Bouramia, V.P.