

Boneh Engineering Associates
770 Lefferts Avenue
Suite C1L
Brooklyn, NY 11203-1280
Phone 718-493-6046
jottenstein1@optonline.net

September 18, 2006

Mr. Martin Kolt
Active Ventilation Products
P.O. Box 1521
Newburgh, NY 12251-1521

Re: Dormer Vent Free Area

Dear Mr. Kolt;

I received information and samples of the two dormer vents, one 36 in. long and the other 48" long.

The instructions indicate that the roof opening for the 36 in. long unit should be 1.75 in. x 30 in. This results in an inlet area of 52.5 sq in. The outlet area of the vent is 1.5 in x 36 in. with 0.016 in. thick blades spaced every 0.2 in. This means that there 180 blades in the outlet. The net outlet free area is therefore 1.5 in. x 36 in. -180 x 1.5 in x 0.016 in. = 54 - 4.3 = 49.7 square inches.

The instructions indicate that the roof opening for the 48 in. long unit should be 1.75 in x 42 in. This results in an inlet area of 73.5 sq. in. The outlet area of the vent is 1.5 in x 48 in with .016 in. thick blades spaced every 0.2 in. This means that there are 240 blades in the outlet. The net outlet free area is therefore 1.5 in x 48 in. -240 x 1.5 in. x 0.016 in. = 72 - 5.8 = 66.2 square inches.

In summary the 36 inch dormer unit has a free area of 49.7 square inches and the 48 inch dormer unit has a free area of 66.2 square inches when installed as directed by the manufacturer.

If you have any other questions please feel free to call me.

Sincerely,



Jonathan Ottenstein P.E.

