

Passive Attic Ventilation

Net Free Area (NFA) - Net venting area adjusting for insect screen, louvers, and weather coverings. The net free area is always less than the actual area.

Screen Factor (SF) - Adjusts for airflow obstructed by screens and louvers.

Screen Factor (SF)		
Mesh	SF w/o Louvers	SF w/Louvers
1/4" or 1/2"	1.0	2.0
1/8"	1.25	2.25
1/16"	2.0	2.0

Calculating NFA

$$\frac{\text{Attic Area (sq. ft.)}}{\text{If vents are high and low, divide by 300 OR If vents are all on the same level, divide by 150}} = \text{Net Free Area (NFA) Required}$$

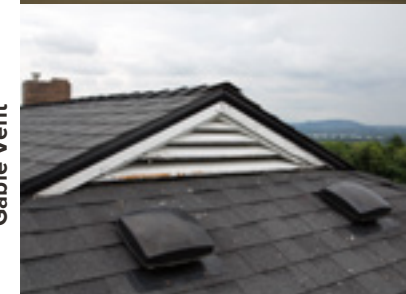
NFA for Common Attic Vents					
Attic vents	NFA	Eave vents (Bird Blocks)	NFA	Soffit vents	NFA
7" Roof Jack	0.27	1 Hole	0.02	4 x 16	0.15
8" Roof Jack	0.35	2 Holes	0.07	6 x 16	0.27
9" Roof Jack	0.45	4 Holes	0.09	8 x 16	0.38
10" Roof Jack	0.55	Small Rectangle	0.09		
12" Roof Jack	0.80	Large Rectangle	0.21		
12 x 12 Gable Vent	0.50	3 x 15 Eave Screen	0.25		
12 x 18 Gable Vent	0.75	3 x 23 Eave Screen	0.38		
12 x 24 Gable Vent	1.00	5 x 15 Eave Screen	0.42		
		5 x 23 Eave Screen	0.69		

NFA for roof ridge vent systems varies. Refer to manufacturer's specifications.

Eave Vent



Gable Vent



Roof Jack



Soffit Vent

