

## Venting Calculations

To determine the net free ventilating area of a vent, divide the gross ventilating (do not include metal frame edges) area by the **Area Factor** below.

<u>Covering</u>	<u>Area Factor</u>
¼ inch hardware cloth	1.0
w/ rain louvers	2.0
#8 mesh screen	1.25
w/rain louvers	2.25
#16 mesh screen	2.0
w/rain louvers	3.0
Rain louvers only	2.0

<u>Bird blocks per hole factor</u>			
	¼"	1/8"	1/16" mesh
1"	.0055	.0044	.0027
1.5"	.0123	.0098	.0061
2"	.0218	.0174	.0109
2.5"	.0341	.0273	.0170
3"	.0491	.0393	.0245

### Continuous Soffit Vent (per lineal foot)

	¼"	1/8"	1/16" mesh
2"	.17	.13	.08
3"	.25	.20	.13
4"	.33	.27	.17

### Bird blocks per notch factor

	¼"	1/8"	1/16" mesh
1"	.0035	.0029	.0018
1.5"	.0078	.0063	.0039
2"	.0139	.0111	.0069
2.5"	.0217	.0174	.0109

### Continuous Ridge Vent

8 lineal feet = 1 square foot

### Manufactured Eave Vents

	¼"	1/8"	1/16"
24"oc 21.5"x2.5"	.37	.30	.19
21.5"x4.5"	.67	.54	.34
16"oc 13.5"x2.5"	.23	.19	.12
13.5"x4.5"	.42	.34	.21

### Gable Vents with louvers

	¼"	1/8"	1/16"	Plastic w/slits
8"x8"	.22	.20	.15	.10
8"x12"	.33	.30	.22	.15
8"x16"	.44	.40	.30	.20
12"x12"	.50	.44	.33	.23
12"x18"	.75	.67	.50	.34
14"x24"	1.17	1.04	.78	.53

### Roof Jacks (8mesh) 8 mesh circular

AF-41	.22	6" - .16	8.5"- .32
AF-50	.28	6.5"- .18	9" - .35
AF-61	.34	7" - .21	9.5"- .39
R-92	.51	7.5"- .25	10" - .44
R-144	.80	8" - .28	10.5"- .48

### Full Screen Crawlspace Vents

16"x8" (14.5x6.5"opening)	.65
16"x6" (14.5"x4.5"opening)	.45

### Plastic Pre-made Floor Vents

16"x6" (2 squares 6.75"x4.5"each)	.42
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### Soffit or Floor Vents Louvered

16"x8" (2 squares) 1/16" mesh	.22
16"x8" (2 squares) 1/8" mesh	.30
16"x8" (2 squares) ¼" mesh	.34
16"x8" (2 squares) louvers only	.34
16"x6" (2 squares) 1/16" mesh	.17
16"x6" (2 squares) 1/8" mesh	.22
16"x6" (2 squares) ¼" mesh	.25
16"x6" (2 squares) louvers only	.25
16"x4" (2 squares) 1/16" mesh	.10
16"x4" (2 squares) 1/8" mesh	.13
16"x4" (2 squares) ¼" mesh	.15
16"x4" (2 squares) louvers only	.15

All new attic vents shall have 1/8" mesh screening. Soffit vents can also have louvers. Any existing attic vents that need to be repaired shall use 1/8" mesh screening.

Any new floor venting shall be ¼" mesh Screening as shall any existing vents that need to be repaired or replaced.