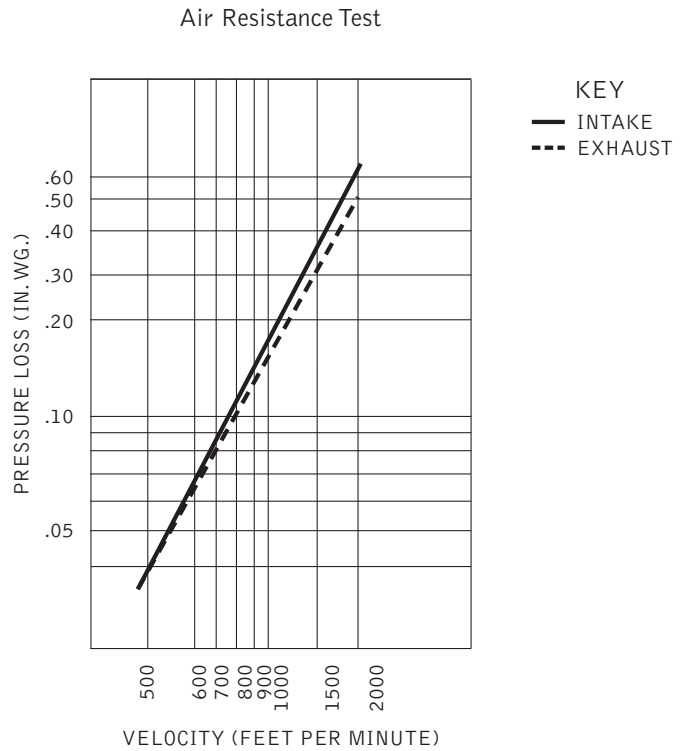
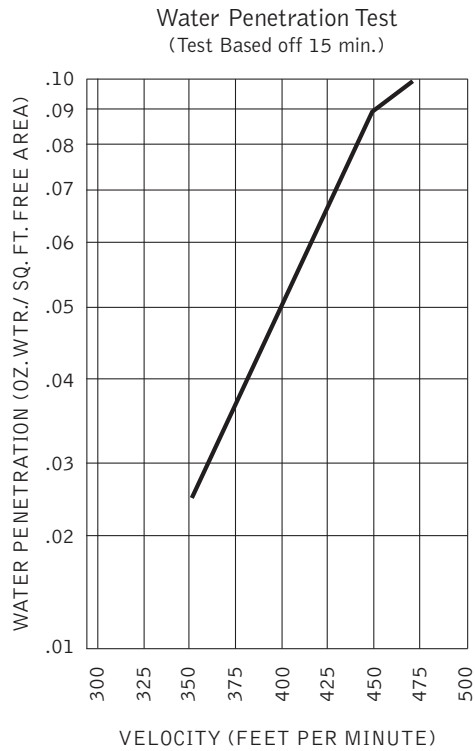


OUTSIDE AIR LOUVERS

4550 Series



NOTE: Tests based on 48" × 48" size louver.
The beginning point of water penetration is 1059 FPM @ 0.01 oz/sq ft of free area.

48" × 48" Example:
7.93 Free Area × 1059 FPM = 8,398 CFM

Louver Sizing Calculations:

$$\frac{\text{Air Flow Volume (CFM)}}{\text{Free Area velocity at beginning point of water penetration (FPM)}} = \frac{\text{Required Louver Free Area (ft}^2\text{)}}{\text{Free Area}}$$

4550 Series (Free Area Chart ft²)

Length in Inches	Width in Inches										
	12	18	24	30	36	42	48	54	60	66	72
12	0.37	0.63	0.88	1.13	1.38	1.63	1.89	2.14	2.39	2.64	2.89
18	0.63	1.00	1.38	1.76	2.14	2.52	2.89	3.27	3.65	4.03	4.41
24	0.88	1.38	1.89	2.39	2.89	3.40	3.90	4.41	4.91	5.41	5.92
30	1.13	1.76	2.39	3.02	3.65	4.28	4.91	5.54	6.17	6.80	7.43
36	1.38	2.14	2.89	3.65	4.41	5.16	5.92	6.67	7.43	8.19	8.94
42	1.63	2.52	3.40	4.28	5.16	6.04	6.93	7.81	8.69	9.57	10.45
48	1.89	2.89	3.90	4.91	5.92	6.93	7.93	8.94	9.95	10.96	11.97
54	2.14	3.27	4.41	5.54	6.67	7.81	8.94	10.08	11.21	12.34	13.48
60	2.39	3.65	4.91	6.17	7.43	8.69	9.95	11.21	12.47	13.73	14.99
66	2.64	4.03	5.41	6.80	8.19	9.57	10.96	12.34	13.73	15.12	16.50
72	2.89	4.41	5.92	7.43	8.94	10.45	11.97	13.48	14.99	16.50	18.01

NOTE: CFM values do not have a safety factor built in. It is recommended to oversize the louver to accommodate an additional 20% in Free Area to allow for variations in required airflows. Bird and Insect screens will negatively impact air flow when not properly maintained.