

**Imperial [IP] Dimensions**  
**Metric (SI) in Parentheses**

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HEIGHT INCHES	WIDTH IN INCHES																		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.19	0.31	0.43	0.54	0.66	0.78	0.89	1.01	1.13	1.24	1.36	1.48	1.59	1.71	1.83	1.94	2.06	2.18	2.29
18	0.50	0.80	1.10	1.41	1.71	2.01	2.31	2.62	2.92	3.22	3.53	3.83	4.13	4.43	4.74	5.04	5.34	5.65	5.95
24	0.77	1.23	1.70	2.16	2.63	3.09	3.56	4.02	4.49	4.96	5.42	5.89	6.35	6.82	7.28	7.75	8.21	8.68	9.14
30	0.96	1.54	2.13	2.71	3.30	3.88	4.46	5.05	5.63	6.22	6.80	7.38	7.97	8.55	9.13	9.72	10.30	10.89	11.47
36	1.15	1.85	2.55	3.25	3.96	4.66	5.36	6.06	6.76	7.46	8.16	8.86	9.56	10.26	10.96	11.66	12.36	13.06	13.76
42	1.43	2.29	3.16	4.02	4.89	5.76	6.62	7.49	8.36	9.22	10.09	10.95	11.82	12.69	13.55	14.42	15.29	16.15	17.02
48	1.61	2.59	3.57	4.55	5.53	6.51	7.49	8.47	9.45	10.43	11.41	12.39	13.37	14.35	15.33	16.31	17.29	18.27	19.25
54	1.92	3.09	4.26	5.42	6.59	7.76	8.93	10.10	11.26	12.43	13.60	14.77	15.93	17.10	18.27	19.44	20.61	21.77	22.94
60	2.11	3.40	4.68	5.97	7.25	8.54	9.82	11.11	12.39	13.67	14.96	16.24	17.53	18.81	20.10	21.38	22.67	23.95	25.23
66	2.35	3.78	5.21	6.64	8.07	9.50	10.93	12.36	13.79	15.22	16.65	18.08	19.51	20.94	22.37	23.80	25.23	26.66	28.09
72	2.81	4.52	6.23	7.94	9.65	11.36	13.07	14.78	16.49	18.20	19.90	21.61	23.32	25.03	26.74	28.45	30.16	31.87	33.58
78	2.88	4.63	6.39	8.14	9.89	11.64	13.39	15.14	16.90	18.65	20.40	22.15	23.90	25.65	27.40	29.16	30.91	32.66	34.41
84	3.07	4.94	6.81	8.68	10.55	12.42	14.28	16.15	18.02	19.89	21.76	23.63	25.49	27.36	29.23	31.10	32.97	34.84	36.70
90	3.28	5.27	7.27	9.26	11.25	13.25	15.24	17.23	19.23	21.22	23.21	25.21	27.20	29.19	31.18	33.18	35.17	37.16	39.16
96	3.55	5.70	7.86	10.02	12.17	14.33	16.48	18.64	20.80	22.95	25.11	27.26	29.42	31.57	33.73	35.89	38.04	40.20	42.35
102	3.82	6.13	8.45	10.77	13.09	15.41	17.73	20.05	22.36	24.68	27.00	29.32	31.64	33.96	36.28	38.59	40.91	43.23	45.55
108	3.96	6.37	8.78	11.19	13.60	16.01	18.42	20.82	23.23	25.64	28.05	30.46	32.87	35.28	37.68	40.09	42.50	44.91	47.32
114	4.24	6.81	9.38	11.96	14.53	17.10	19.68	22.25	24.82	27.40	29.97	32.54	35.12	37.69	40.26	42.84	45.41	47.98	50.56
120	4.28	6.89	9.49	12.09	14.69	17.30	19.90	22.50	25.10	27.71	30.31	32.91	35.51	38.12	40.72	43.32	45.92	48.53	51.13

### PLAB and PMAB Selection and Examples

**Example 1:**

Airflow given as 10,000 cfm – select four louver sides.

A.  $10,000 \text{ cfm} \div 4 \text{ louver sides} = 2,500 \text{ cfm per side}$

B.  $2,500 \text{ cfm} \div 812 \text{ fpm} = 3.08 \text{ ft}^2 \text{ (F.A.) per side}$

C. Select louver from the above free area chart.

$42" \text{w} \times 24" \text{h} = 3.09 \text{ ft}^2 \text{ (F.A.)}$

$3.09 \text{ ft}^2 \times 4 \text{ sides} = 12.36 \text{ ft}^2 \text{ total}$

**Example 2:**

To select “rectangular” shape in lieu of square

A. Simply break down  $12.36 \text{ ft}^2$

$4 + 4 + 2 + 2 = 12 \text{ ft}^2$

B. Select louver from above free area chart.

$2 \text{ ft}^2 = 42" \times 18"$

$4 \text{ ft}^2 = 82" \times 18"$

Penthouse size  $82" \text{w} \times 42" \text{l} \times 18" \text{h}$