Model LE-57



Water Penetration Pressure Drop Free Area

: 0.01 oz (3.0 g) at 523 fpm (2.66 m/s) recommended free area velocity : 0.056 in wg (13.9 Pa.) at 523 fpm (2.66 m/s) and 3766 scfm (1.78 scm/s) : 7.2 sq ft (0.669 sq m) = 45% for 48" x 48" (1.22m x 1.22m) test size



VELOCITY THROUGH FREE AREA fpm (m/s) standard air- .075 lbs per cu ft Ratings do not include the effect of a wire bird screen Test based on a 48" x 48" test size per AMCA Standard 511



AWV certifies that the model LE-57 louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance and water penetration ratings. LE-57 per sq ft (grams/m²)

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Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 523 fpm (2.66 m/s).

To determine minimum free area required for louver: **Step #1:** Divide the required CFM flow by the maximum recommended free area velocity. **Step #2:** Select the most desirable louver size, from the free area table, that meets the minimum free area requirement. **Step #3:** Compare specified performance to the certified

water penetration and pressure drop ratings.

FREE AREA IN SQUARE FEET (sq meters)

	WIDTH								
	in.	12	24	36	48	60	72	84	96
HEIGHT	mm	305	610	914	1219	1524	1829	2134	2438
	12	0.28	0.62	0.97	1.31	1.61	1.95	2.30	2.64
	305	0.026	0.058	0.090	0.122	0.150	0.181	0.214	0.245
	24	0.71	1.59	2.47	3.35	4.11	4.99	5.87	6.75
	610	0.066	0.148	0.229	0.311	0.382	0.464	0.545	0.627
	36	1.15	2.56	3.97	5.38	6.62	8.03	9.44	10.85
	914	0.107	0.238	0.369	0.500	0.615	0.746	0.877	1.008
	48	1.58	3.53	5.47	7.20	9.12	11.07	13.01	14.96
	1219	0.147	0.328	0.508	0.689	0.847	1.028	1.209	1.390
	60	2.02	4.50	6.98	9.46	11.63	14.11	16.59	19.07
	1524	0.188	0.418	0.648	0.879	1.080	1.311	1.541	1.772
	72	2.45	5.46	8.48	11.49	14.13	17.14	20.15	23.17
	1829	0.228	0.507	0.788	1.067	1.313	1.592	1.872	2.153
	84	2.88	6.43	9.98	13.52	16.63	20.18	23.72	27.27
	2134	0.268	0.597	0.927	1.256	1.545	1.875	2.204	2.533
	96	3.32	7.40	11.48	15.56	19.13	23.21	27.30	31.38
	2438	0.308	0.687	1.067	1.446	1.777	2.156	2.536	2.915



VELOCITY THROUGH FREE AREA fpm (m/s)

Both maximum recommended free area velocity and beginning of water penetration are 523 fpm at standard air -.075 lbs per cu ft. The above water penetration data is based on mill finish, 48" x 48" test size per AMCA Standard 511.

Openings that require multiple louver panels in both width and height will require internal structural supports. It is recommended that large openings be divided with structural members so that the louvers will span either width or height with a single panel. Unusually high wind loading may require structural supports on non-multiple wide and multiple high assemblies. **Structural supports and mounting accessories are not supplied as a standard**.

Example:	Given: 10000 CFM design flow					
Step #1:						
min. free area =	Design CFM					
	Max. Recommended Velocity					
= _	<u>10000</u> = 19.12 sq ft					
o, "o ⊑ ,	523					
Step #2: From t	ne free area table above the approximate					
louver size is 60" x 96" = (19.13 sq ft)						

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