

Model 945-CV**9" Storm Resistant Louver****Material**

Material	6063-T6 Aluminum Alloy
Nominal Thickness (heads, sills, jambs & mullions)	0.080" (2.06 mm)
Nominal Blade Thickness	0.060" (1.52 mm)
Furnished With	Bird screen: aluminum
Additional Options (at additional cost)	Screen, Blank-Off

Test Summary

(A 4 ft. x 4 ft. unit with mill finish and no screen)

- Free Area = 9.54 SF
- Percent Free Area = 59.6%
- Intake Pressure Drop at 1000 FPM Free Area Velocity = 0.25 in. wg (62.2 Pa)
- To maintain a Class A (99%) effectiveness rating* with a 50 mph wind speed and a rainfall of 8 in./hr, the maximum intake core velocity through the louver is 981 fpm

* Tested with a 1 m² core area, mill finish and no screen.

Discharge Coefficient

Intake $C_D = 0.33$ (Class 2)

AMCA certifies coefficient class only.

Eastern Custom Metals certifies that the louver model 945-CV shown hereon is licensed to bear the AMCA Certified Ratings Program 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 Program seal applies to Wind Driven Rain (AMCA Standard 500-L-12, Figure 5.11) and Air Performance (AMCA Standard 500-L-12, Figure 5.5).

Ratings include the effect of a client-supplied sill pan.

Application and Design

945-CV is tested in accordance with AMCA 500-L Air Performance and Wind Driven Rain. Minimum louver section size to be 16" x 16".

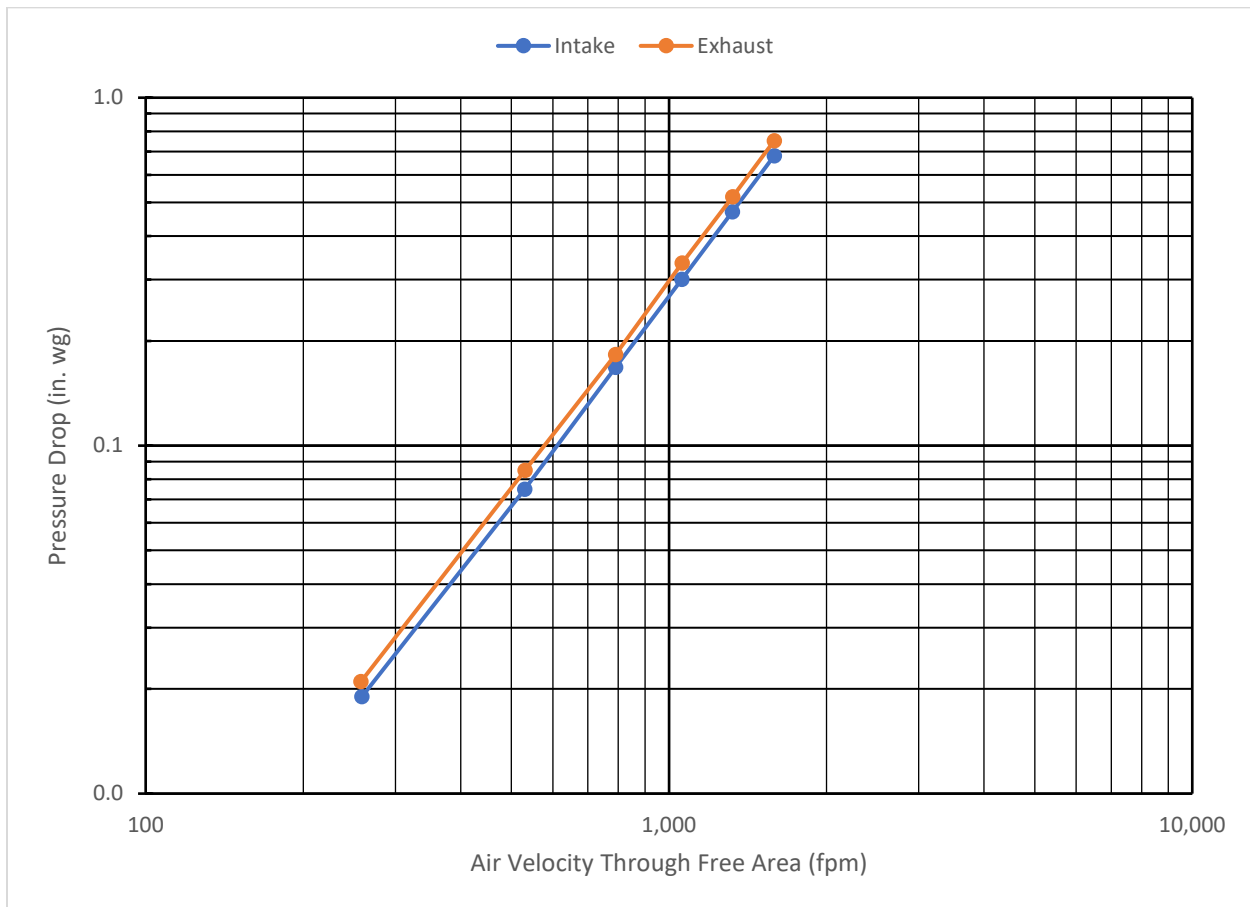
Eastern Custom Metals, Inc. certifies that the louver model 945-CV shown herein is approved to bear the AMCA Seal. The ratings shown are based on test procedures performed in accordance with AMCA Publications and comply with the requirements of AMCA.

Wind Driven Rain Performance:

Core Velocity Through Cal. Plate (m/s)	Core Velocity Through Louver (ft/min)	Penetration Class	Effectiveness Ratio (%)
5.0	981.11	A	99.70
4.5	887.47	A	99.90
4.0	787.38	A	100.00

Test Information:

- AMCA Standard 500-L-12, Figure 5.11
- Wind Velocity = 50 mph (22.3 m/s)
- Rainfall Rate = 8 inches/hour (203 mm)
- Test Sample Size = 39.375" W x 39.375" H Core, 47.75" W x 47.75" H Nominal
- Mill finish
- No screen
- Ratings include the effect of a client-supplied sill pan.

Air Performance Rating:**Test Information:**

- Louver tested per AMCA Standard 500-L-12, Figure 5.5.
- Size: 48 inch square O.D. nominal
- Free Area = 9.54 ft²
- Core Area = 13.82 ft²
- Mill finish
- Data corrected to standard air density.
- Ratings include the effect of a client-supplied sill pan.

Water Penetration Statement

AMCA defines the point of beginning water penetration as the free area velocity at which the AMCA water test has yielded 0.01 or less ounces of water per square foot of louver free area during a 15-minute test period.

Free Area:

		Width (inches or meters)									
		16	18	24	30	36	42	48	54	60	
		0.41	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	
Height (inches or meters)	16	0.70	0.80	1.11	1.41	1.71	2.01	2.31	2.61	2.92	
		0.41	0.07	0.07	0.10	0.13	0.16	0.19	0.21	0.24	0.27
	18	0.90	1.03	1.41	1.80	2.18	2.57	2.95	3.34	3.72	
		0.46	0.08	0.10	0.13	0.17	0.20	0.24	0.27	0.31	0.35
	24	1.25	1.42	1.96	2.49	3.03	3.56	3.56	4.63	5.16	
		0.61	0.12	0.13	0.18	0.23	0.28	0.33	0.33	0.43	0.48
	30	1.67	1.91	2.63	3.35	4.07	4.78	5.50	6.22	6.94	
		0.76	0.16	0.18	0.24	0.31	0.38	0.44	0.51	0.58	0.64
	36	2.10	2.40	3.30	4.20	5.11	6.01	6.91	7.81	8.71	
		0.91	0.20	0.22	0.31	0.39	0.47	0.56	0.64	0.73	0.81
	42	2.45	2.80	3.85	4.90	5.95	7.00	8.05	9.10	10.16	
		1.07	0.23	0.26	0.36	0.46	0.55	0.65	0.75	0.85	0.94
	48	2.90	3.32	4.56	5.81	7.05	8.30	9.54	10.79	12.03	
		1.22	0.27	0.31	0.42	0.54	0.66	0.77	0.89	1.00	1.12
	54	3.24	3.71	5.10	6.49	7.88	9.27	10.66	12.05	13.44	
		1.37	0.30	0.34	0.47	0.60	0.73	0.86	0.99	1.12	1.25
60	3.68	4.21	5.78	7.36	8.94	10.52	12.09	13.67	15.25		
	1.52	0.34	0.39	0.54	0.68	0.83	0.98	1.12	1.27	1.42	
66	4.10	4.69	6.45	8.20	9.96	11.72	13.48	15.23	16.99		
	1.68	0.38	0.44	0.60	0.76	0.93	1.09	1.25	1.42	1.58	
72	4.46	5.09	7.00	8.92	10.83	12.74	14.65	16.56	18.47		
	1.83	0.41	0.47	0.65	0.83	1.01	1.18	1.36	1.54	1.72	
78	4.91	5.61	7.72	9.82	11.93	14.03	16.14	18.24	20.35		
	1.98	0.46	0.52	0.72	0.91	1.11	1.30	1.50	1.69	1.89	
84	5.24	5.99	8.24	10.49	12.74	14.98	17.23	19.48	21.72		
	2.13	0.49	0.56	0.77	0.97	1.18	1.39	1.60	1.81	2.02	
90	5.69	6.50	8.94	11.38	13.81	16.25	18.69	21.13	23.56		
	2.29	0.53	0.60	0.83	1.06	1.28	1.51	1.74	1.96	2.19	
96	6.10	6.97	9.59	12.20	14.82	17.43	20.05	22.66	25.27		
	2.44	0.57	0.65	0.89	1.13	1.38	1.62	1.86	2.11	2.35	
102	6.46	7.39	10.16	12.93	15.70	18.47	21.24	24.01	26.78		
	2.59	0.60	0.69	0.94	1.20	1.46	1.72	1.97	2.23	2.49	
108	6.92	7.91	10.87	13.83	16.80	19.76	22.73	25.69	28.66		
	2.74	0.64	0.73	1.01	1.29	1.56	1.84	2.11	2.39	2.66	
114	7.24	8.28	11.38	14.49	17.59	20.69	23.80	26.90	30.01		
	2.90	0.67	0.77	1.06	1.35	1.63	1.92	2.21	2.50	2.79	
120	7.69	8.79	12.09	15.39	18.69	21.98	25.28	28.58	31.87		
	3.05	0.71	0.82	1.12	1.43	1.74	2.04	2.35	2.65	2.96	