

AEROVAC FRESH AIR LOUVER

INTRODUCTION

AEROVAC fresh air are specially designed for fresh air intake for the HVAC system. Louvers usually provide airflow, both intake and exhaust, to HVAC and other building systems, while protecting these openings against rain and offering minimum resistance to the airflow.

AEROVAC louvers are carefully designed with low pressure drop and prevent rainwater penetration. Our louvers are extremely suitable for ventilation as well as for aesthetic appearance, thus making it a preferred choice for architectural louvers as well.

CONSTRUCTION:

Frame	: 1.2mm thick High quality Extruded Aluminium profiles
Blade	: 1.2mm thick High quality Extruded Aluminium profiles
Filter	: ½ "Aluminium Washable Filter
Finish	: RAL 9010 Powder coated finish

OPTIONS:

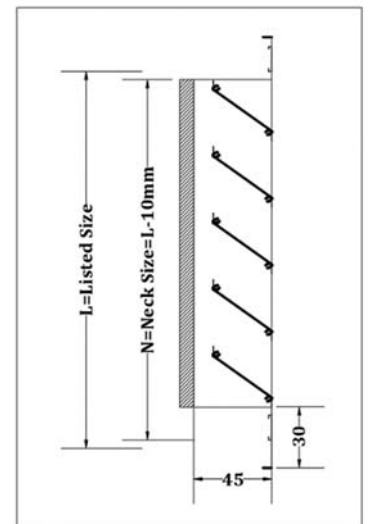
- **Filter:** Aluminium washable filter with 1" thickness
- **Damper:** Control damper
- **Finish:** Mill finish aluminium, Any RAL Colour available upon request

FEATURES

- Louver is composed of casing and horizontal blade assembly, fabricated with a high quality of extruded aluminium profiles with the advantage of durability & anti-corrosion.
- The blades are constructed maximum at 45 degrees to have the highest free area and provide minimum resistance to airflow and protect against water penetration.
- The louvers provide 40% effective free area with minimum resistance to airflow.
- The horizontal blades are closed spaced to minimize the water penetration and prevent water getting beyond the louver.



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Prime A/C Industries LL.C Certifies that the model AV-FAL shown herewith is licensed to bear the AMCA seal. The rating shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA certified ratings programs. The AMCA Certified Rating seal applies to Air performance and water penetration ratings.

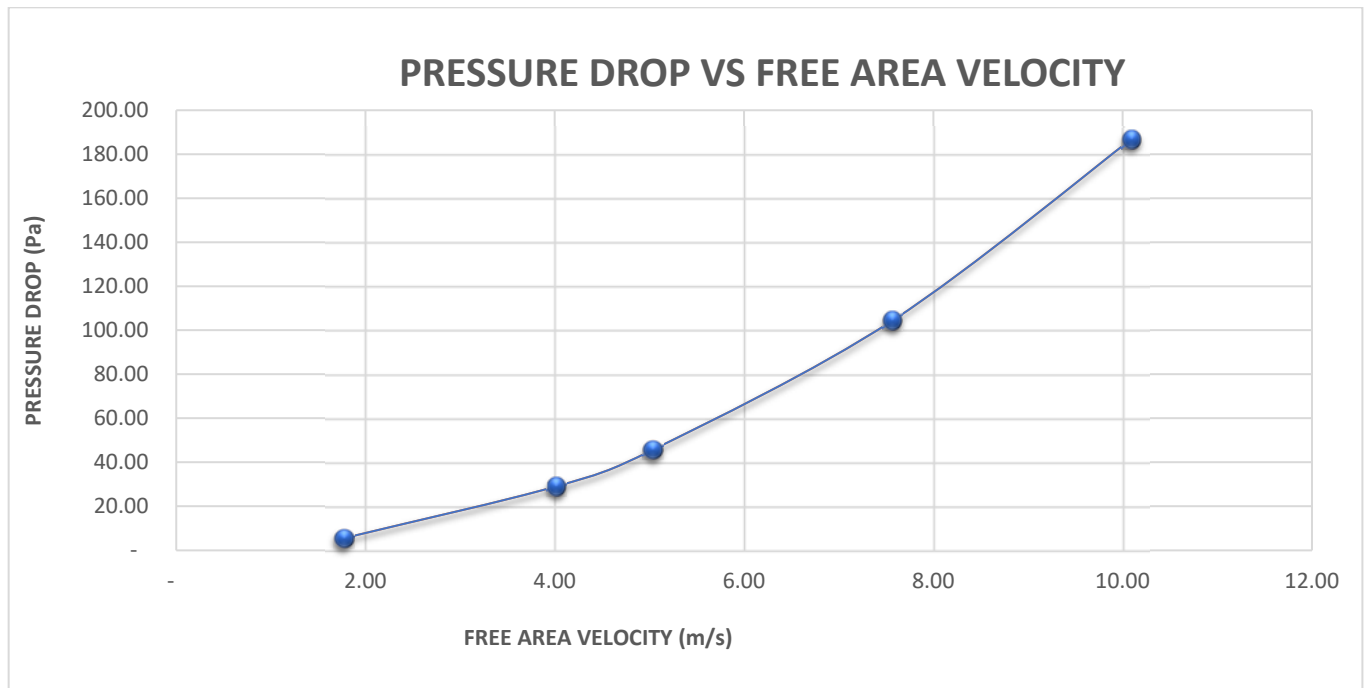
ENGINEERING PERFORMANCE DATA:

FRESH AIR LOUVER (AV-FAL)															
FREE AREA CHART															
W x H	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400
12	0.39	0.59	0.79	0.98	1.18	1.37	1.57	1.77	1.96	2.16	2.36	2.55	2.75	2.95	3.14
300	0.04	0.05	0.07	0.09	0.11	0.13	0.15	0.16	0.18	0.20	0.22	0.24	0.26	0.27	0.29
18	0.59	0.88	1.18	1.47	1.77	2.06	2.36	2.65	2.95	3.24	3.54	3.83	4.12	4.42	4.71
450	0.05	0.08	0.11	0.14	0.16	0.19	0.22	0.25	0.27	0.30	0.33	0.36	0.38	0.41	0.44
24	0.79	1.18	1.57	1.96	2.36	2.75	3.14	3.54	3.93	4.32	4.71	5.11	5.50	5.89	6.28
600	0.07	0.11	0.15	0.18	0.22	0.26	0.29	0.33	0.36	0.40	0.44	0.47	0.51	0.55	0.58
30	0.98	1.47	1.96	2.45	2.95	3.44	3.93	4.42	4.91	5.40	5.89	6.38	6.87	7.36	7.86
750	0.09	0.14	0.18	0.23	0.27	0.32	0.36	0.41	0.46	0.50	0.55	0.59	0.64	0.68	0.73
36	1.18	1.77	2.36	2.95	3.54	4.12	4.71	5.30	5.89	6.48	7.07	7.66	8.25	8.84	9.43
900	0.11	0.16	0.22	0.27	0.33	0.38	0.44	0.49	0.55	0.60	0.66	0.71	0.77	0.82	0.88
42	1.37	2.06	2.75	3.44	4.12	4.81	5.50	6.19	6.87	7.56	8.25	8.94	9.62	10.31	11.00
1050	0.13	0.19	0.26	0.32	0.38	0.45	0.51	0.57	0.64	0.70	0.77	0.83	0.89	0.96	1.02
48	1.57	2.36	3.14	3.93	4.71	5.50	6.28	7.07	7.86	8.64	9.43	10.21	11.00	11.78	12.57
1200	0.15	0.22	0.29	0.36	0.44	0.51	0.58	0.66	0.73	0.80	0.88	0.95	1.02	1.09	1.17
54	1.77	2.65	3.54	4.42	5.30	6.19	7.07	7.95	8.84	9.72	10.61	11.49	12.37	13.26	14.14
1350	0.16	0.25	0.33	0.41	0.49	0.57	0.66	0.74	0.82	0.90	0.99	1.07	1.15	1.23	1.31
60	1.96	2.95	3.93	4.91	5.89	6.87	7.86	8.84	9.82	10.80	11.78	12.77	13.75	14.73	15.71
1500	0.18	0.27	0.36	0.46	0.55	0.64	0.73	0.82	0.91	1.00	1.09	1.19	1.28	1.37	1.46
66	2.16	3.24	4.32	5.40	6.48	7.56	8.64	9.72	10.80	11.88	12.96	14.04	15.12	16.20	17.28
1650	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.51	1.61
72	2.36	3.54	4.71	5.89	7.07	8.25	9.43	10.61	11.78	12.96	14.14	15.32	16.50	17.68	18.85
1800	0.22	0.33	0.44	0.55	0.66	0.77	0.88	0.99	1.09	1.20	1.31	1.42	1.53	1.64	1.75
78	2.55	3.83	5.11	6.38	7.66	8.94	10.21	11.49	12.77	14.04	15.32	16.60	17.87	19.15	20.42
1950	0.24	0.36	0.47	0.59	0.71	0.83	0.95	1.07	1.19	1.30	1.42	1.54	1.66	1.78	1.90
84	2.75	4.12	5.50	6.87	8.25	9.62	11.00	12.37	13.75	15.12	16.50	17.87	19.25	20.62	22.00
2100	0.26	0.38	0.51	0.64	0.77	0.89	1.02	1.15	1.28	1.40	1.53	1.66	1.79	1.92	2.04
90	2.95	4.42	5.89	7.36	8.84	10.31	11.78	13.26	14.73	16.20	17.68	19.15	20.62	22.09	23.57
2250	0.27	0.41	0.55	0.68	0.82	0.96	1.09	1.23	1.37	1.51	1.64	1.78	1.92	2.05	2.19
96	3.14	4.71	6.28	7.86	9.43	11.00	12.57	14.14	15.71	17.28	18.85	20.42	22.00	23.57	25.14
2400	0.29	0.44	0.58	0.73	0.88	1.02	1.17	1.31	1.46	1.61	1.75	1.90	2.04	2.19	2.34



Prime A/C Industries LLC Certifies that the model AV-FAL shown herewith is licensed to bear the AMCA seal. The rating shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA certified ratings programs. The AMCA Certified Rating seal applies to Air performance and water penetration ratings.

AIR PERFORMANCE:



Test Results:			
Free Area Velocity		Pressure Drop	
(fpm)	(m/s)	(i.wg)	(Pa)
349	1.57	0.02	5.0
792	4.02	0.12	29.0
992	5.04	0.18	45.0
1490	7.57	0.42	104.0
1987	10.09	0.75	186.0

TEST INFORMATION:

Tested for Air performance in accordance with ANSI/AMCA Standard 500-L, Figure 5.5.

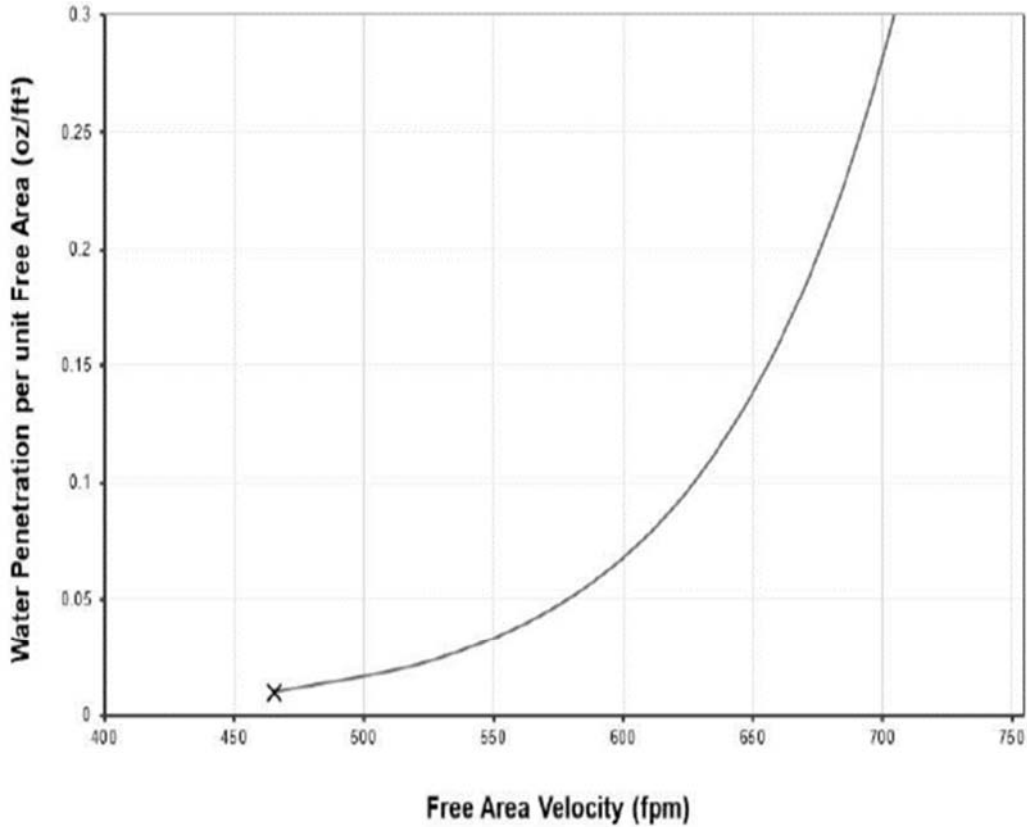
Test sample size is 48 in. x 48 in. with a tolerance of +0, -0.25 in.

Louver air performance data are based on intake performance.



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WATER PENETRATION:



— Water Penetration per Free Area X Beginning of Water Penetration

Beginning of water penetration as per AMCA publication 511 Section 8.3.2 based on AMCA measured Free Area > or =465.4 fpm

TEST INFORMATION:

Tested for water penetration in accordance with ANSI/AMCA Standard 500-L, Figure 5.6.

Test sample size is 48 in. x 48 in. with a tolerance of +0, -0.25 in.

Louver water penetration test data are based on intake performance.



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AEROVAC EXHAUST AIR LOUVER

INTRODUCTION

AEROVAC Exhaust air louvers are specially designed for exhaust air intake for the HVAC system. Louvers usually provide airflow, both intake and exhaust, to HVAC and other building systems, while protecting these openings against rain and offering minimum resistance to the airflow.

AEROVAC louvers are carefully designed with low pressure drop and prevent rainwater penetration. Our louvers are extremely suitable for ventilation as well as for aesthetic appearance, thus making it a preferred choice for architectural louvers as well.

CONSTRUCTION:

Frame	: 1.2mm thick High quality Extruded Aluminium profiles
Blade	: 1.2mm thick High quality Extruded Aluminium profiles
Screen	: GI Bird Wire Mesh
Finish	: RAL 9010 Powder coated finish

OPTIONS:

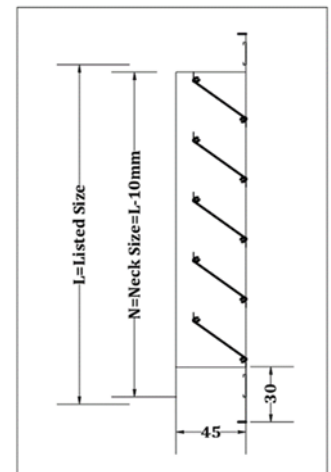
- **Mesh:** Stainless Steel wire Mesh
- **Finish:** Mill finish Aluminium, Any RAL Colour available upon request

FEATURES

- Louver is composed of casing and horizontal blade assembly, fabricated with a high quality of extruded aluminium profiles with the advantage of durability & anti-corrosion.
- The blades are constructed maximum at 45 degrees to have the highest free area and provide minimum resistance to airflow and protect against water penetration.
- The louvers provide 40% effective free area with minimum resistance to airflow.
- The horizontal blades are closed spaced to minimize the water penetration and prevent water getting beyond the louver.



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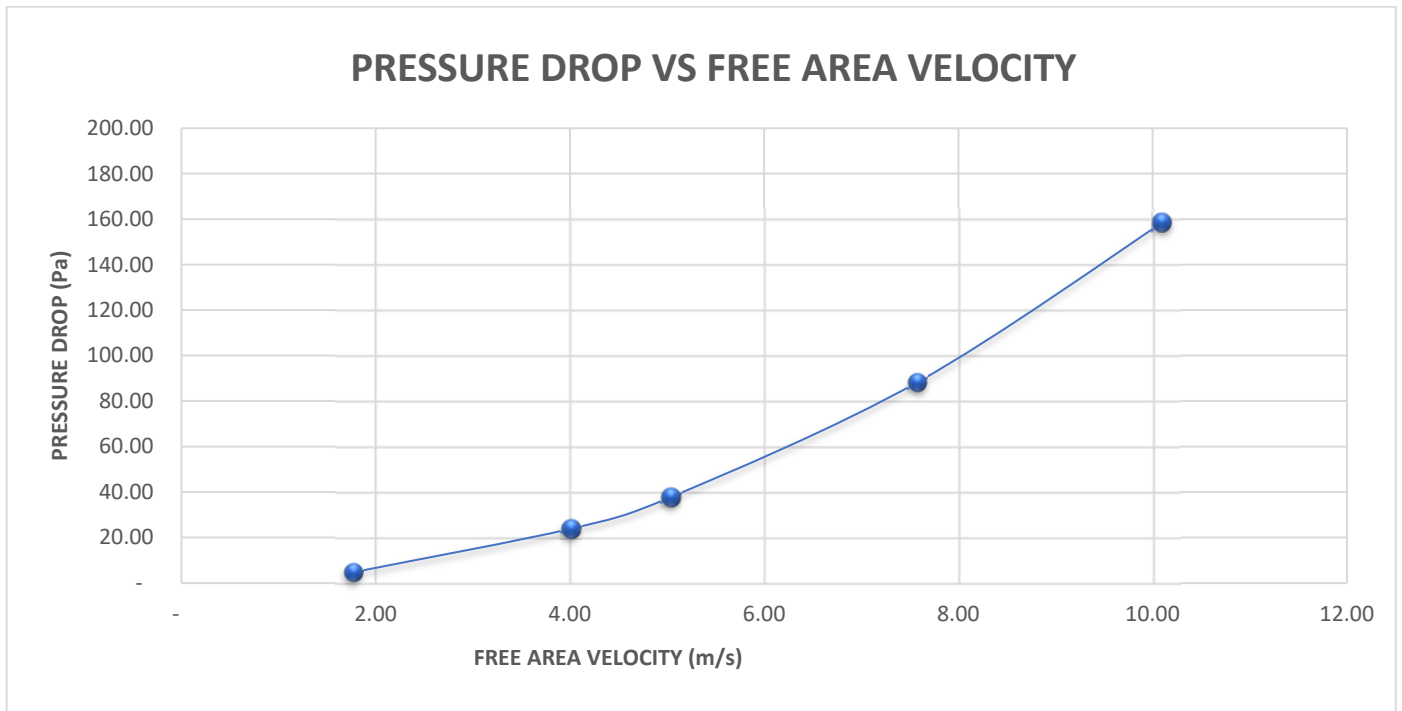
ENGINEERING PERFORMANCE DATA:

EXHAUST AIR LOUVER (AV-EAL)															
FREE AREA CHART															
W x H	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400
12	0.39	0.59	0.79	0.98	1.18	1.37	1.57	1.77	1.96	2.16	2.36	2.55	2.75	2.95	3.14
300	0.04	0.05	0.07	0.09	0.11	0.13	0.15	0.16	0.18	0.20	0.22	0.24	0.26	0.27	0.29
18	0.59	0.88	1.18	1.47	1.77	2.06	2.36	2.65	2.95	3.24	3.54	3.83	4.12	4.42	4.71
450	0.05	0.08	0.11	0.14	0.16	0.19	0.22	0.25	0.27	0.30	0.33	0.36	0.38	0.41	0.44
24	0.79	1.18	1.57	1.96	2.36	2.75	3.14	3.54	3.93	4.32	4.71	5.11	5.50	5.89	6.28
600	0.07	0.11	0.15	0.18	0.22	0.26	0.29	0.33	0.36	0.40	0.44	0.47	0.51	0.55	0.58
30	0.98	1.47	1.96	2.45	2.95	3.44	3.93	4.42	4.91	5.40	5.89	6.38	6.87	7.36	7.86
750	0.09	0.14	0.18	0.23	0.27	0.32	0.36	0.41	0.46	0.50	0.55	0.59	0.64	0.68	0.73
36	1.18	1.77	2.36	2.95	3.54	4.12	4.71	5.30	5.89	6.48	7.07	7.66	8.25	8.84	9.43
900	0.11	0.16	0.22	0.27	0.33	0.38	0.44	0.49	0.55	0.60	0.66	0.71	0.77	0.82	0.88
42	1.37	2.06	2.75	3.44	4.12	4.81	5.50	6.19	6.87	7.56	8.25	8.94	9.62	10.31	11.00
1050	0.13	0.19	0.26	0.32	0.38	0.45	0.51	0.57	0.64	0.70	0.77	0.83	0.89	0.96	1.02
48	1.57	2.36	3.14	3.93	4.71	5.50	6.28	7.07	7.86	8.64	9.43	10.21	11.00	11.78	12.57
1200	0.15	0.22	0.29	0.36	0.44	0.51	0.58	0.66	0.73	0.80	0.88	0.95	1.02	1.09	1.17
54	1.77	2.65	3.54	4.42	5.30	6.19	7.07	7.95	8.84	9.72	10.61	11.49	12.37	13.26	14.14
1350	0.16	0.25	0.33	0.41	0.49	0.57	0.66	0.74	0.82	0.90	0.99	1.07	1.15	1.23	1.31
60	1.96	2.95	3.93	4.91	5.89	6.87	7.86	8.84	9.82	10.80	11.78	12.77	13.75	14.73	15.71
1500	0.18	0.27	0.36	0.46	0.55	0.64	0.73	0.82	0.91	1.00	1.09	1.19	1.28	1.37	1.46
66	2.16	3.24	4.32	5.40	6.48	7.56	8.64	9.72	10.80	11.88	12.96	14.04	15.12	16.20	17.28
1650	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.51	1.61
72	2.36	3.54	4.71	5.89	7.07	8.25	9.43	10.61	11.78	12.96	14.14	15.32	16.50	17.68	18.85
1800	0.22	0.33	0.44	0.55	0.66	0.77	0.88	0.99	1.09	1.20	1.31	1.42	1.53	1.64	1.75
78	2.55	3.83	5.11	6.38	7.66	8.94	10.21	11.49	12.77	14.04	15.32	16.60	17.87	19.15	20.42
1950	0.24	0.36	0.47	0.59	0.71	0.83	0.95	1.07	1.19	1.30	1.42	1.54	1.66	1.78	1.90
84	2.75	4.12	5.50	6.87	8.25	9.62	11.00	12.37	13.75	15.12	16.50	17.87	19.25	20.62	22.00
2100	0.26	0.38	0.51	0.64	0.77	0.89	1.02	1.15	1.28	1.40	1.53	1.66	1.79	1.92	2.04
90	2.95	4.42	5.89	7.36	8.84	10.31	11.78	13.26	14.73	16.20	17.68	19.15	20.62	22.09	23.57
2250	0.27	0.41	0.55	0.68	0.82	0.96	1.09	1.23	1.37	1.51	1.64	1.78	1.92	2.05	2.19
96	3.14	4.71	6.28	7.86	9.43	11.00	12.57	14.14	15.71	17.28	18.85	20.42	22.00	23.57	25.14
2400	0.29	0.44	0.58	0.73	0.88	1.02	1.17	1.31	1.46	1.61	1.75	1.90	2.04	2.19	2.34



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AIR PERFORMANCE:



Test Results:			
Free Area Velocity		Pressure Drop	
(fpm)	(m/s)	(i.wg)	(Pa)
348	1.77	0.02	4.0
790	4.01	0.10	23.0
992	5.04	0.15	37.0
1492	7.58	0.36	88.0
1988	10.10	0.64	158

TEST INFORMATION:

Tested for Air performance in accordance with ANSI/AMCA Standard 500-L, Figure 5.5.

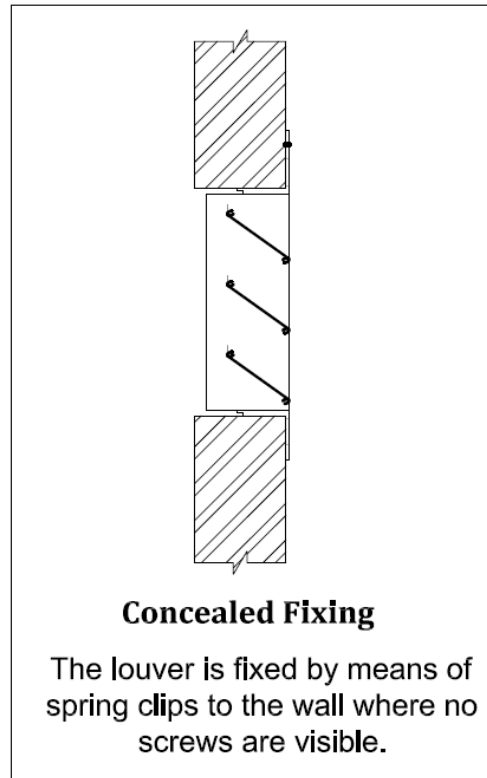
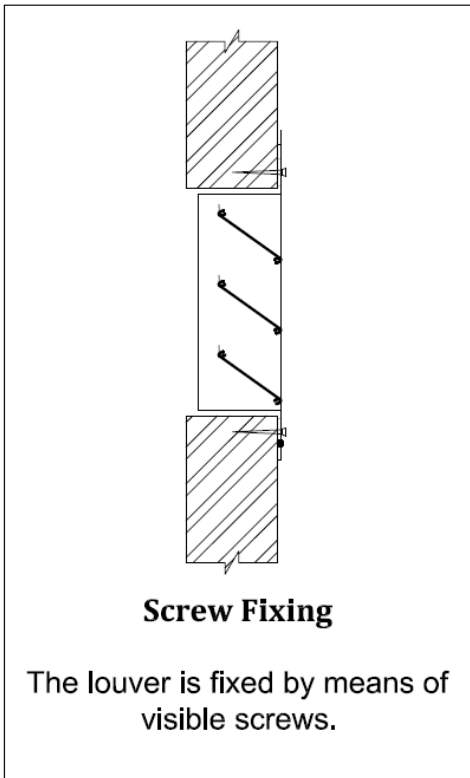
Test sample size is 48 in. x 48 in. with a tolerance of +0, -0.25 in.

Louver air performance data are based on Exhaust performance.



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INSTALLATION DETAILS



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