

Model A12370
12" (304.8 mm) Standard Fixed Acoustical Louver

Material:

Material:	1100 Aluminum Alloy, Fiberglass Insulation protected by woven (self-extinguishing) 100% Polyester sheeting
Nominal Thickness (heads, sills, jambs, & mullions):	0.081" (2.06 mm)
Nominal Blade Thickness:	0.081" (2.06 mm)
Furnished With:	Birdscreen: ½" (12.7mm) intercrimp aluminum mesh, 0.063" (1.60 mm) diameter wire removeable aluminum bird screen in an aluminum frame
Additional Options (at additional cost):	Insect screen (in lieu of bird screen), Continuous clip angles for attachment Sheet blank off, Insulated blank off Sill pans, Flange frames Integrated glazing frames



Test Summary:
For a 4 Foot by 4 Foot Unit.

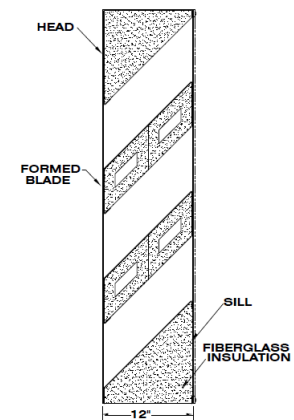
Tested with mill finish and no screen

- Free area = 3.50 ft² (0.33 m²)
- Percent free area = 22.0%
- Free area velocity at the point of beginning water penetration (@ 0.01oz. / ft² of free area based on a 15 minute interval test) = 1036 FPM (5.26 m/s)
- Intake pressure drop at 1036 FPM free area velocity = 0.097in H₂O (24.1 Pa)

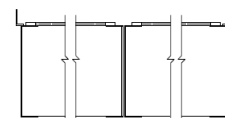
Acoustical Data:

The louver manufacturer shall submit test data from an accredited acoustical laboratory in accordance with ASTM Standard E90-90. The minimum acceptable performance through all octave bands is as follows: STC = 15

Frequency (hz)	63	125	250	500	1000	2000	4000	8000
Transmission Loss	10	8	9	13	17	17	13	13
Noise Reduction	16	14	15	19	23	23	19	19



SECTION VIEW

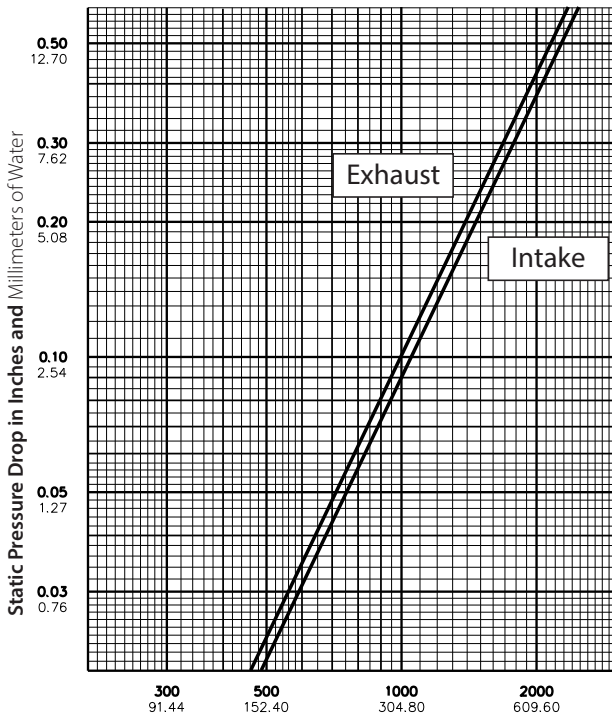


PLAN VIEW

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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.



Air Velocity in Feet and Meters per Minute Through Free Area

Data corrected to standard air density.
 48" x 48" (121.92cm x 121.92cm) louver tested to figure 5.5.

Free Area Table (Free area in sq. feet and sq. meters)

For additional sizes, please visit:

<https://www.c-sgroup.com/architectural-louvers/louvers-airflow-tool>

Width in Inches and Meters

	Width in Inches and Meters								
	12	18	24	30	36	42	48	54	60
	0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52
24	0.21	0.37	0.53	0.69	0.85	1.01	1.17	1.32	1.48
0.61	0.02	0.03	0.05	0.06	0.08	0.09	0.11	0.12	0.14
30	0.21	0.37	0.53	0.69	0.85	1.01	1.17	1.32	1.48
0.76	0.02	0.03	0.05	0.06	0.08	0.09	0.11	0.12	0.14
36	0.42	0.74	1.06	1.38	1.70	2.01	2.33	2.65	2.97
0.91	0.04	0.07	0.10	0.13	0.16	0.19	0.22	0.25	0.28
42	0.42	0.74	1.06	1.38	1.70	2.01	2.33	2.65	2.97
1.07	0.04	0.07	0.10	0.13	0.16	0.19	0.22	0.25	0.28
48	0.64	1.11	1.59	2.07	2.54	3.02	3.50	3.97	4.45
1.22	0.06	0.10	0.15	0.19	0.24	0.28	0.33	0.37	0.41
54	0.64	1.11	1.59	2.07	2.54	3.02	3.50	3.97	4.45
1.37	0.06	0.10	0.15	0.19	0.24	0.28	0.33	0.37	0.41
60	0.85	1.48	2.12	2.76	3.39	4.03	4.66	5.30	5.93
1.52	0.08	0.14	0.20	0.26	0.31	0.37	0.43	0.49	0.55
66	0.85	1.48	2.12	2.76	3.39	4.03	4.66	5.30	5.93
1.68	0.08	0.14	0.20	0.26	0.31	0.37	0.43	0.49	0.55
72	1.06	1.85	2.65	3.44	4.24	5.03	5.83	6.62	7.42
1.83	0.10	0.17	0.25	0.32	0.39	0.47	0.54	0.62	0.69
78	1.06	1.85	2.65	3.44	4.24	5.03	5.83	6.62	7.42
1.98	0.10	0.17	0.25	0.32	0.39	0.47	0.54	0.62	0.69
84	1.27	2.23	3.18	4.13	5.09	6.04	6.99	7.95	8.90
2.13	0.12	0.21	0.30	0.38	0.47	0.56	0.65	0.74	0.83
90	1.27	2.23	3.18	4.13	5.09	6.04	6.99	7.95	8.90
2.29	0.12	0.21	0.30	0.38	0.47	0.56	0.65	0.74	0.83
96	1.48	2.60	3.71	4.82	5.93	7.05	8.16	9.27	10.39
2.44	0.14	0.24	0.34	0.45	0.55	0.65	0.76	0.86	0.97
102	1.48	2.60	3.71	4.82	5.93	7.05	8.16	9.27	10.39
2.59	0.14	0.24	0.34	0.45	0.55	0.65	0.76	0.86	0.97
108	1.70	2.97	4.24	5.51	6.78	8.05	9.33	10.60	11.87
2.74	0.16	0.28	0.39	0.51	0.63	0.75	0.87	0.98	1.10
114	1.70	2.97	4.24	5.51	6.78	8.05	9.33	10.60	11.87
2.90	0.16	0.28	0.39	0.51	0.63	0.75	0.87	0.98	1.10
120	1.91	3.34	4.77	6.20	7.63	9.06	10.49	11.92	13.35
3.05	0.18	0.31	0.44	0.58	0.71	0.84	0.97	1.11	1.24
126	1.91	3.34	4.77	6.20	7.63	9.06	10.49	11.92	13.35
3.20	0.18	0.31	0.44	0.58	0.71	0.84	0.97	1.11	1.24
132	2.12	3.71	5.30	6.89	8.48	10.07	11.66	13.25	14.84
3.35	0.20	0.34	0.49	0.64	0.79	0.94	1.08	1.23	1.38
138	2.12	3.71	5.30	6.89	8.48	10.07	11.66	13.25	14.84
3.51	0.20	0.34	0.49	0.64	0.79	0.94	1.08	1.23	1.38
144	2.33	4.08	5.83	7.58	9.33	11.07	12.82	14.57	16.32
3.66	0.22	0.38	0.54	0.70	0.87	1.03	1.19	1.35	1.52
150	2.33	4.08	5.83	7.58	9.33	11.07	12.82	14.57	16.32
3.81	0.22	0.38	0.54	0.70	0.87	1.03	1.19	1.35	1.52
156	2.54	4.45	6.36	8.27	10.17	12.08	13.99	15.90	17.80
3.96	0.24	0.41	0.59	0.77	0.94	1.12	1.30	1.48	1.65
162	2.54	4.45	6.36	8.27	10.17	12.08	13.99	15.90	17.80
4.11	0.24	0.41	0.59	0.77	0.94	1.12	1.30	1.48	1.65
168	2.76	4.82	6.89	8.95	11.02	13.09	15.15	17.22	19.29
4.27	0.26	0.45	0.64	0.83	1.02	1.22	1.41	1.60	1.79
174	2.76	4.82	6.89	8.95	11.02	13.09	15.15	17.22	19.29
4.42	0.26	0.45	0.64	0.83	1.02	1.22	1.41	1.60	1.79
180	2.97	5.19	7.42	9.64	11.87	14.09	16.32	18.54	20.77
4.57	0.28	0.48	0.69	0.90	1.10	1.31	1.52	1.72	1.93
186	2.97	5.19	7.42	9.64	11.87	14.09	16.32	18.54	20.77
4.72	0.28	0.48	0.69	0.90	1.10	1.31	1.52	1.72	1.93
192	3.18	5.56	7.95	10.33	12.72	15.10	17.49	19.87	22.25
4.88	0.30	0.52	0.74	0.96	1.18	1.40	1.62	1.85	2.07
198	3.18	5.56	7.95	10.33	12.72	15.10	17.49	19.87	22.25
5.03	0.30	0.52	0.74	0.96	1.18	1.40	1.62	1.85	2.07
204	3.39	5.93	8.48	11.02	13.56	16.11	18.65	21.19	23.74
5.18	0.31	0.55	0.79	1.02	1.26	1.50	1.73	1.97	2.21

Height in Inches and Meters

Upper Numerals English Units/Lower Numerals Metric Units