

Model 4830
4" (101.6 mm) Step Blade 45° Operating Extruded Louver

Material:

Material:	6063-T6 Alloy
Nominal Thickness (heads, sills, jambs, & mullions):	0.080" (2.03 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

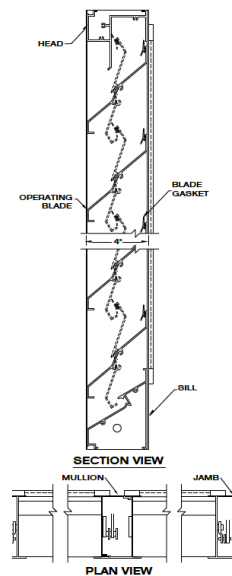


Test Summary:

For a 4 Foot by 4 Foot Unit.

Tested with mill finish and no screen

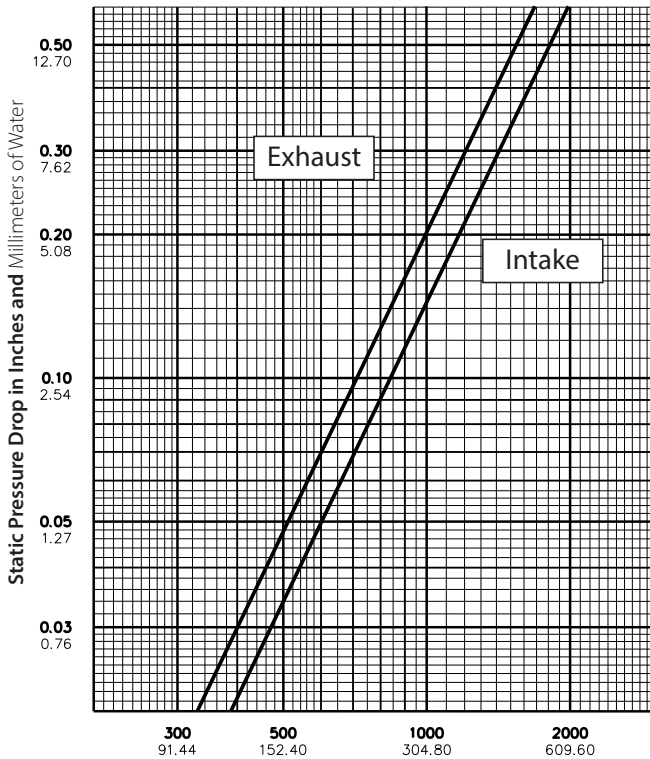
- Free area = 5.30 ft² (0.492 m²)
- Percent free area = 33.1%
- Maximum recommended air intake velocity = 700 FPM (3.56 m/s)
- Intake pressure drop at 0.01 oz. / ft² free area velocity = 0.07 in. H₂O (17.4 Pa)



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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									
	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	0.41	0.72	1.03	1.33	1.64	1.95	2.26	2.57	2.87	
0.61	0.04	0.07	0.10	0.12	0.15	0.18	0.21	0.24	0.27	
30	0.55	0.96	1.37	1.78	2.19	2.60	3.01	3.42	3.74	
0.76	0.05	0.09	0.13	0.17	0.20	0.24	0.28	0.32	0.35	
36	0.70	1.23	1.75	2.28	2.80	3.33	3.85	4.38	4.91	
0.91	0.07	0.11	0.16	0.21	0.26	0.31	0.36	0.41	0.46	
42	0.84	1.46	2.09	2.72	3.35	3.97	4.60	5.23	5.86	
1.07	0.08	0.14	0.19	0.25	0.31	0.37	0.43	0.49	0.54	
48	0.96	1.69	2.41	3.13	3.85	4.58	5.30	6.02	6.74	
1.22	0.09	0.16	0.22	0.29	0.36	0.43	0.49	0.56	0.63	
54	1.09	1.91	2.73	3.56	4.38	5.20	6.02	6.84	7.66	
1.37	0.10	0.18	0.25	0.33	0.41	0.48	0.56	0.64	0.71	
60	1.22	2.14	3.06	3.98	4.90	5.82	6.73	7.65	8.57	
1.52	0.11	0.20	0.28	0.37	0.46	0.54	0.63	0.71	0.80	
66	1.36	2.37	3.39	4.40	5.42	6.44	7.45	8.47	9.49	
1.68	0.13	0.22	0.31	0.41	0.50	0.60	0.69	0.79	0.88	
72	1.54	2.70	3.85	5.01	6.16	7.32	8.47	9.63	10.79	
1.83	0.14	0.25	0.36	0.47	0.57	0.68	0.79	0.89	1.00	
78	1.65	2.89	4.12	5.36	6.60	7.83	9.07	10.31	11.55	
1.98	0.15	0.27	0.38	0.50	0.61	0.73	0.84	0.96	1.07	
84	1.78	3.12	4.45	5.78	7.12	8.45	9.79	11.12	12.46	
2.13	0.17	0.29	0.41	0.54	0.66	0.79	0.91	1.03	1.16	
90	1.93	3.38	4.83	6.28	7.73	9.18	10.63	12.08	13.53	
2.29	0.18	0.31	0.45	0.58	0.72	0.85	0.99	1.12	1.26	
96	2.07	3.62	5.18	6.73	8.28	9.84	11.39	12.94	14.49	
2.44	0.19	0.34	0.48	0.63	0.77	0.91	1.06	1.20	1.35	
102	2.22	3.89	5.56	7.23	8.90	10.57	12.24	13.90	15.57	
2.59	0.21	0.36	0.52	0.67	0.83	0.98	1.14	1.29	1.45	
108	2.37	4.14	5.92	7.70	9.47	11.25	13.02	14.80	16.58	
2.74	0.22	0.38	0.55	0.72	0.88	1.05	1.21	1.37	1.54	
114	2.50	4.37	6.25	8.12	10.00	11.87	13.85	15.62	17.50	
2.90	0.23	0.41	0.58	0.75	0.93	1.10	1.29	1.45	1.63	
120	2.64	4.61	6.59	8.57	10.55	12.52	14.50	16.48	18.46	
3.05	0.25	0.43	0.61	0.80	0.98	1.16	1.35	1.53	1.71	
126	2.79	4.88	6.97	9.07	11.16	13.25	15.34	17.44	19.53	
3.20	0.26	0.45	0.65	0.84	1.04	1.23	1.43	1.62	1.81	
132	2.93	5.12	7.31	9.51	11.70	13.90	16.09	18.28	20.48	
3.35	0.27	0.48	0.68	0.88	1.09	1.29	1.49	1.70	1.90	
138	3.05	5.34	7.63	9.92	12.21	14.50	16.79	19.08	21.37	
3.51	0.28	0.50	0.71	0.92	1.13	1.35	1.56	1.77	1.99	
144	3.18	5.57	7.96	10.34	12.73	15.12	17.51	19.89	22.28	
3.66	0.30	0.52	0.74	0.96	1.18	1.40	1.63	1.85	2.07	
150	3.31	5.80	8.28	10.77	13.25	15.74	18.22	20.71	23.19	
3.81	0.31	0.54	0.77	1.00	1.23	1.46	1.69	1.92	2.15	
156	3.44	6.03	8.61	11.19	13.78	16.36	18.94	21.52	24.11	
3.96	0.32	0.56	0.80	1.04	1.28	1.52	1.76	2.00	2.24	
162	3.63	6.35	9.07	11.80	14.52	17.24	19.96	22.69	25.41	
4.11	0.34	0.59	0.84	1.10	1.35	1.60	1.85	2.11	2.36	
168	3.74	6.54	9.35	12.15	14.95	17.76	20.56	23.36	26.17	
4.27	0.35	0.61	0.87	1.13	1.39	1.65	1.91	2.17	2.43	
174	3.87	6.77	9.67	12.57	15.48	18.38	21.28	24.18	27.08	
4.42	0.36	0.63	0.90	1.17	1.44	1.71	1.98	2.25	2.52	
180	4.02	7.04	10.05	13.07	16.09	19.10	22.12	25.13	28.15	
4.57	0.37	0.65	0.93	1.21	1.49	1.77	2.06	2.33	2.62	
186	4.16	7.28	10.40	13.52	16.64	19.76	22.88	26.00	29.12	
4.72	0.39	0.68	0.97	1.26	1.55	1.84	2.13	2.42	2.71	
192	4.31	7.55	10.78	14.02	17.25	20.49	23.73	26.96	30.20	
4.88	0.40	0.70	1.00	1.30	1.60	1.90	2.20	2.50	2.81	
198	4.46	7.80	11.14	14.49	17.83	21.17	24.51	27.86	31.20	
5.03	0.41	0.72	1.03	1.35	1.66	1.97	2.28	2.59	2.90	

Upper Numerals English Units/Lower Numerals Metric Units