

MODEL AFL-D-4

HIGH PERFORMANCE ADJUSTABLE LOUVER 4"

STANDARD CONSTRUCTION:

FRAME:

.081 Extruded Aluminum 4.25" deep with standard 1.5" perimeter flange
(Flange removal instructions included)

BLADES:

.081 Extruded Aluminum Positioned on a 30° angle
on approximately 2.88" centers.

LINKAGE:

Jamb Linkage

BIRDSCREEN:

.50" X .050 Flattened Aluminum in Removable Frame.
Screen is mounted on inside (rear) as looking from exterior of building.

OPERATOR:

Louvers without actuators will be supplied with Locking Quadrants

FINISH:

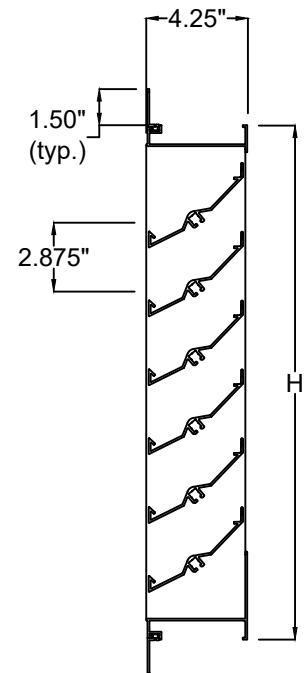
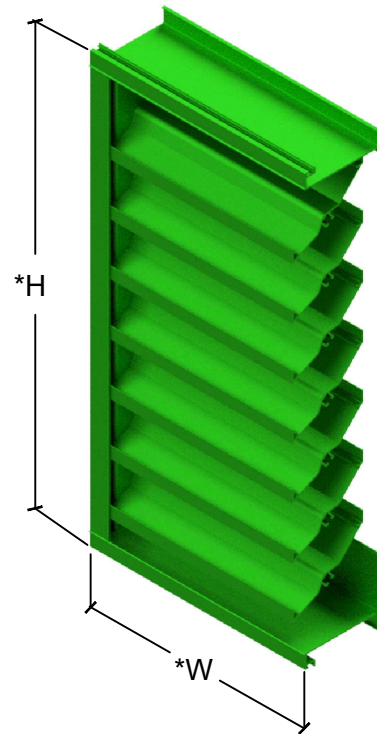
Mill Aluminum (Std.)

MINIMUM SIZE:

12"w x 12"h

MAXIMUM SIZE:

60"w x 96"h single section, Multiple louvers can be bolted together
up to 120"w x 84" h or 84"w x 120"h. Factory assembled multi-section
max: 108"w x 48"h. Larger sizes are field assembled.



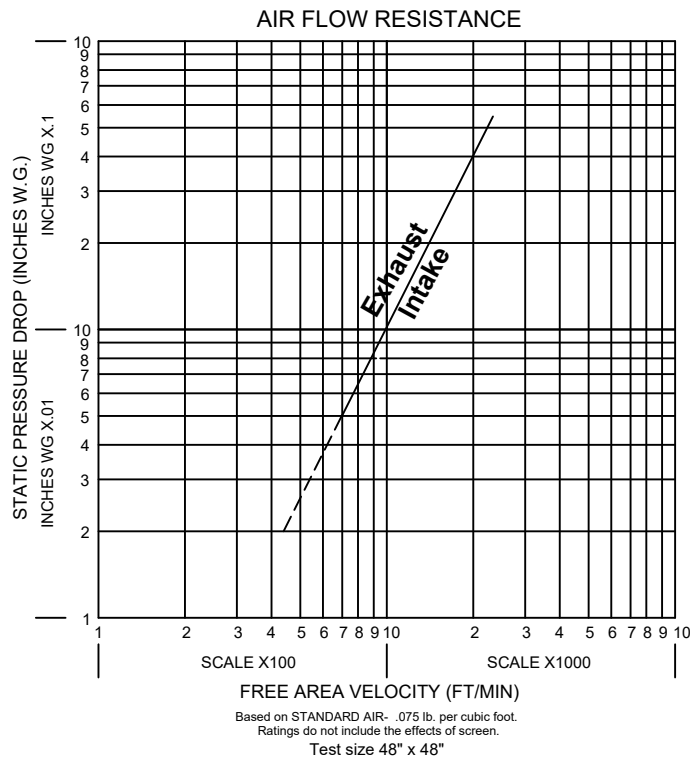
*Width and Height dimensions are approximately 1/4" under listed size.



MODEL AFL-D-4 (High Performance Adjustable Louver 4")

Due to continuing research, Dayton reserves the right to change specifications without notice.

DRAWN BY:	DATE:	REV. DATE:	REV. NO.	DWG. NO.:
CLJ	APRIL 1998	MAY 2023		A-25



AFL-D-4 SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall be adjustable drainable type with drain gutters in each blade and downspouts in jambs and mullions. adjustable drainable blades shall be contained within a 4.25" frame. Louver components (heads, jambs, sills, blades, and mullions) shall be factory assembled by the louver manufacturer. Louver sizes too large for shipping shall be built up by the contractor from factory assembled louver sections to provide overall sizes required. Louver design shall incorporate structural supports required to withstand a wind load of 30 lbs. Per sq. ft. (equivalent of a 110 mph wind).

Louvers shall be Dayton AFL-D-4 6063-T6 extruded aluminum construction as follows:

- Frame: 4.25" deep, .081 nominal wall thickness.
- Blades: .081 nominal wall thickness. Drainable.
- Blades are positioned at 37-degree angle and spaced approximately 2.88 center to center.
- Screen: .50" x .050" (19 x 1.3) expanded, flattened aluminum in removable frame.
- Finish: Select finish specification from Finishes Brochure.

PERFORMANCE DATA

AMCA Standard 500-L provides a reasonable basis for testing and rating louvers. Testing to AMCA 500-L is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

The louver system should be designed with a reasonable safety factor for louver performance. To ensure protection from water carryover, design with a performance level somewhat below maximum desired pressure drop and .01 oz./sq.ft. of water penetration.

Louver Height Inches	AFL-D-4 FREE AREA IN SQ. FT.									Louver Height Inches
	Width - Inches									
	Width									
	12	18	24	30	36	42	48	54	60	
12	0.23	0.36	0.50	0.64	0.78	0.92	1.06	1.20	1.34	12
18	0.45	0.73	1.01	1.29	1.57	1.85	2.13	2.40	2.68	18
24	0.65	1.04	1.44	1.84	2.23	2.63	3.03	3.43	3.82	24
30	0.80	1.28	1.77	2.26	2.75	3.24	3.73	4.22	4.71	30
36	1.08	1.74	2.40	3.07	3.73	4.39	5.05	5.72	6.38	36
42	1.21	1.96	2.71	3.46	4.21	4.95	5.70	6.45	7.20	42
48	1.45	2.35	3.24	4.14	5.03	5.93	6.82	7.71	8.61	48
54	1.65	2.66	3.68	4.69	5.71	6.72	7.74	8.76	9.77	54
60	1.79	2.89	4.00	5.10	6.20	7.31	8.41	9.51	10.61	60
66	2.07	3.35	4.62	5.90	7.17	8.45	9.73	11.00	12.28	66
72	2.21	3.57	4.93	6.29	7.65	9.02	10.38	11.74	13.10	72
78	2.47	3.99	5.50	7.02	8.54	10.06	11.58	13.09	14.61	78
84	2.65	4.27	5.90	7.53	9.16	10.79	12.42	14.04	15.67	84
90	2.79	4.50	6.22	7.94	9.65	11.37	13.08	14.80	16.52	90
96	3.07	4.96	6.85	8.74	10.63	12.53	14.42	16.31	18.20	96



Dayton certifies that the AFL-D-4 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 rating seal applies to air performance ratings and water penetration ratings.

Beginning point of WATER PENETRATION

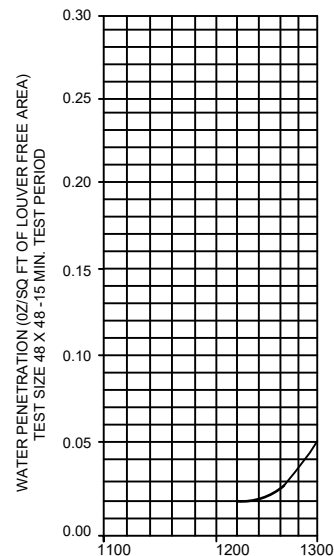
is

1217 fpm

the maximum recommended FREE AREA VELOCITY

WATER PENETRATION

Standard Air- .075 lb/ft³



Based on STANDARD AIR- .075 lb. per cubic foot.
Ratings do not include the effects of screen.
15 minute test duration

AFL-D-4 Flange Removal Instructions

1.) Remove 4 screws holding louver head and in place.

2.) Remove louver head with flange attached.

3.) Slide flange horizontally, out of louver head.

4.) Slide jamb flanges vertically, out of jambs.

5.) Slide sill flange horizontally, out of sill.

6.) Replace louver head and 4 screws.

