

**MODEL AFL-D-4**

**HIGH PERFORMANCE ADJUSTABLE LOUVER 4"**

**STANDARD CONSTRUCTION:**

**FRAME:**

.081 Extruded Aluminum 4.25" deep.

**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:**

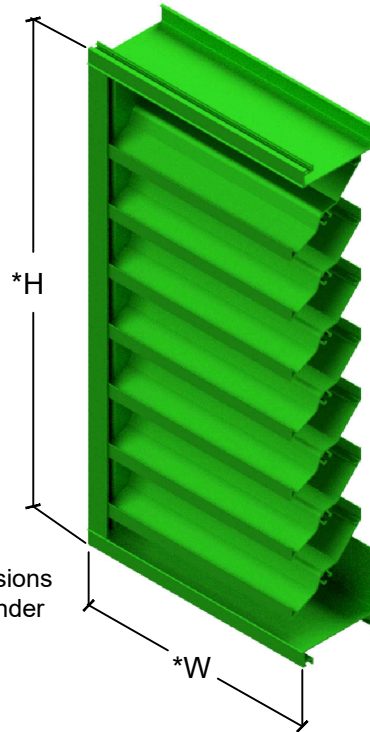
60"w x 96"h single section, Multiple louvers can be bolted together up to 120"w x 84" h or 84"w x 120"h. Factory assembled multi-section max: 108"w x 48"h. Larger sizes are field assembled.

**OPTIONS:**

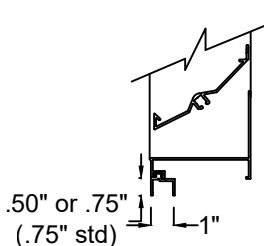
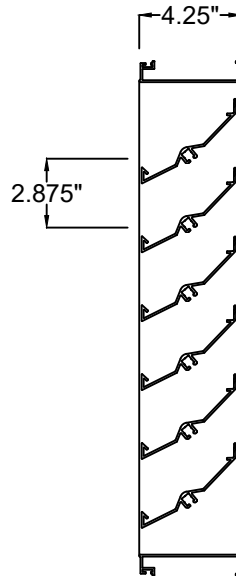
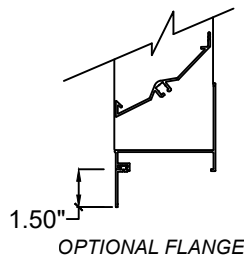
- Flanged Frame (1.5" std.)
- Custom Flange (1", 2", or 3")
- Glazing Adapter (.50" or .75")
- Extended Sill
- Insect Screen (Other Screens Available, See Screen Page)
- Filter Racks (no screen)
- Security Bars
- Blade Seals (EPDM)
- Jamb Seals (Stainless Steel)
- Hinged Sub Frame
- Actuator: See Actuator Selection Chart
- .125" Construction

**AVAILABLE FINISHES:**

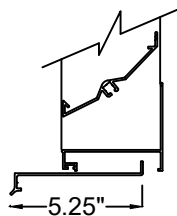
- Durable Polyester (AAMA 2604)
- 70% PVDF Fluoropolymer (AAMA2605)
- Yellow Primer
- Clear Anodize
- Dark Bronze Anodize



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



OPTIONAL GLAZING ADAPTER



OPTIONAL EXTENDED SILL

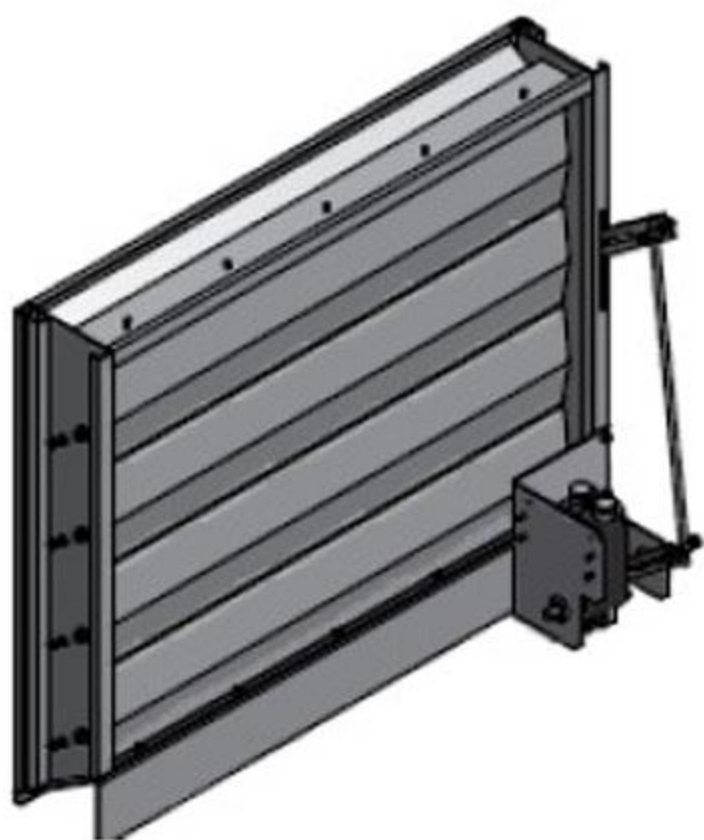
Due to continuing research, United Enertech reserves the right to change specifications without notice.



3005 South Hickory Street  
Chattanooga, Tennessee 37407  
Tel: (423) 698-7715  
Fax: (423) 698-6629  
www.unitedenertech.com

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

DRAWN BY: CLJ	DATE: APRIL 1998	REV. DATE: February 2011	REV. NO. 8	APPROVED BY: BGT	DWG. NO.: A-25
------------------	---------------------	-----------------------------	---------------	---------------------	-------------------



## SUGGESTED 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 jams and mullions. Adjustable drainable blades shall be contained within a 4.25" frame. Louver components (heads, jams, 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.

Louvers shall be United Enertech #AFL-D-4 6063T6 extruded aluminum construction as follows:

Frame: 4.16" 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: 0.5" x .050" (19 x 1.3) expanded, flattened aluminum in removable frame.

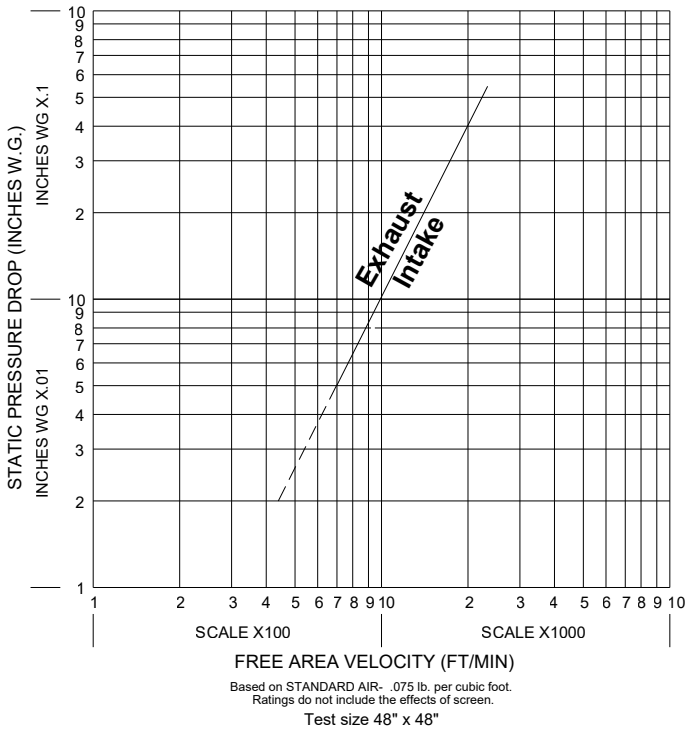
Finish: Select finish specification from United Enertech Finishes Brochure.

## 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.

### AIR FLOW RESISTANCE

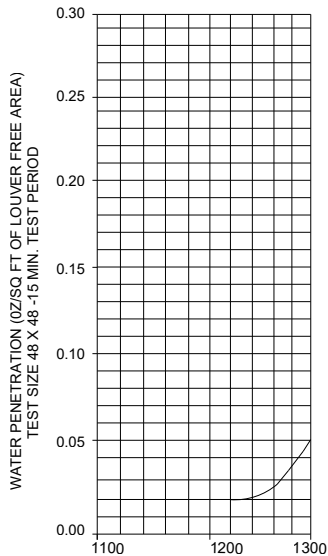


### FREE AREA CHART (SQURE FEET)

Louver Height	Louver Width In Inches								Louver Height		
	Inches	12	18	24	30	36	42	48		54	60
12	0.27	0.44	0.60	0.77	0.94	1.10	1.28	1.45	1.61	1.61	12
18	0.47	0.77	1.05	1.35	1.64	1.94	2.24	2.52	2.82	2.82	18
24	0.68	1.11	1.53	1.96	2.38	2.81	3.23	3.66	4.08	4.08	24
30	0.84	1.37	1.89	2.41	2.94	3.47	3.99	4.51	5.04	5.04	30
36	1.03	1.67	2.32	2.96	3.60	4.24	4.89	5.53	6.17	6.17	36
42	1.25	2.02	2.81	3.59	4.36	5.14	5.92	6.62	7.47	7.47	42
48	1.44	2.34	3.23	4.13	5.02	5.92	6.81	7.71	8.61	8.61	48
54	1.63	2.65	3.67	4.69	5.71	6.73	7.74	8.76	9.78	9.78	54
60	1.84	2.98	4.12	5.26	6.40	7.55	8.69	9.83	10.97	10.97	60
66	2.03	3.29	4.56	5.83	7.10	8.37	9.63	10.90	12.16	12.16	66
72	2.24	3.62	5.02	6.41	7.80	9.19	10.58	11.98	13.37	13.37	72
78	2.42	3.94	5.44	6.95	8.46	9.97	11.48	12.99	14.50	14.50	78
84	2.64	4.59	5.93	7.57	9.22	10.86	12.51	14.17	15.82	15.82	84
90	2.84	4.61	6.38	8.14	9.91	11.69	13.45	15.22	16.97	16.97	90
96	3.04	4.95	6.84	8.75	10.65	12.31	14.44	16.34	18.24	18.24	96

### WATER PENETRATION

Standard Air-.075 lb/ft<sup>3</sup>



Beginning point of WATER PENETRATION  
is

1217 fpm

the maximum recommended FREE AREA VELOCITY



United Enertech 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.

FREE AREA VELOCITY (FT/MIN)

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