

HIGH PERFORMANCE FIXED LOUVER 4"

APPLICATION AND FEATURES

The MODEL FL-D-4 is a weather louver designed to protect the outside opening in building exterior walls. These louvers may be used for exhaust or intake air. This model incorporates drainable blades and downspouts jamb and gutter design for high performance. Engineers and designers can design with confidence since this product is licensed to bear the AMCA Water and Air Label.

Standard Construction:

Frame: .081 Extruded Aluminum, 4-1/8" Deep

Blade: .081 Extruded Aluminum positioned on a 37° angle on approximately 2.879" centers

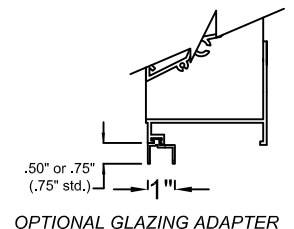
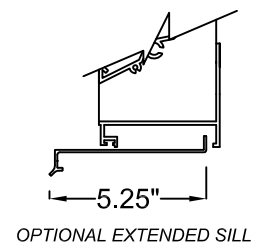
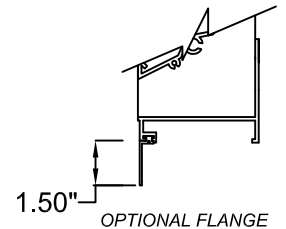
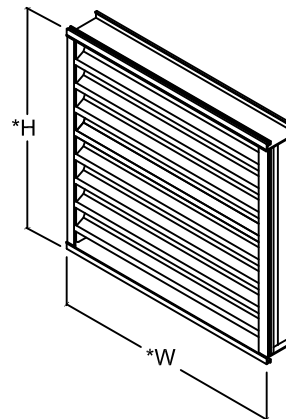
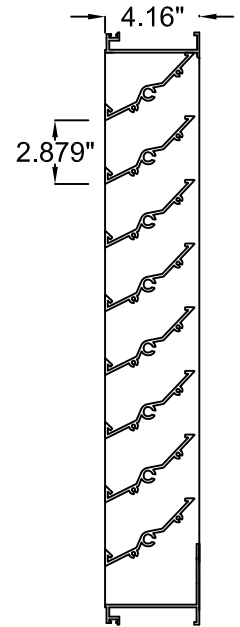
Birdscreen: 3/4" x .051" Flattened Aluminum in removable frame. Screen is mounted as standard on inside (rear) as looking from exterior of building.

Finish: Mill Aluminum (Std.)

Minimum Size: 12 x 12

Maximum Single Section: 120"w x 84"h or 84"w x 120"h

Note: Drainable blade louvers should be limited to 10' maximum section widths (no more than 10' between vertical downspouts) to enable the drainable design to function effectively.



Options:

- FBC Approved for +/- 50 PSF (FL 12335)
- Flanged Frame (1-1/2" std.)
- Custom Flange (1", 2", or 3")
- Extended Sill
- Glazing Adapter (1/2" or 3/4")
- Insect Screen
- Filter Racks
- Security Bars
- Hinged Sub Frame
- Welded Const.

Finishes:

- Clear Anodize
- Integral Color Anodize
- Baked Powder Polyester
- Baked Powder Fluoropolymer 70%
- Baked Powder Clear Coat

**Mounting Clips
(1-1/2"x1-1/2"x3"AL. angle):**

- For Jamb Only (std.)
- For Perimeter, for FBC Louvers

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

Job Name:	<input type="checkbox"/> MODEL FL-D-4		
Location:			
Architect:	DRAWN BY: CLJ	DATE: April 1998	REV. DATE: January 2009
Engineer:	REV. NO. 3	APPROVED BY: SDC	DWG. NO.: E-1
Contractor:			

SUGGESTED SPECIFICATION

Finish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall be stationary drainable type with drain gutters in each blade and downspouts in jambs and mullions. Stationary drainable blades shall be contained within a 4¹/₈" 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 25 lbs. per sq. ft. (equivalent of a 100 mph wind).

Louvers shall be United Enertech FL-D-4 6063T5 aluminum construction as follows:

FRAME: 4¹/₈" deep, .081" nominal wall thickness

BLADES: .081" nominal wall thickness. Blades are positioned at 39° angle and spaced approximately 2.875" center to center.

SCREEN: 3/4" x .051" (19 x 1.3) expanded, flattened aluminum in removable frame.

FINISH: Select finish specification from United Enertech Finishes brochure.

Published louver performance data bearing the AMCA Certified Ratings seal for Air Performance & Water Penetration must be submitted for approval prior to fabrication and must demonstrate pressure drop and water penetration equal to or less than the United Enertech model specified.

PERFORMANCE DATA

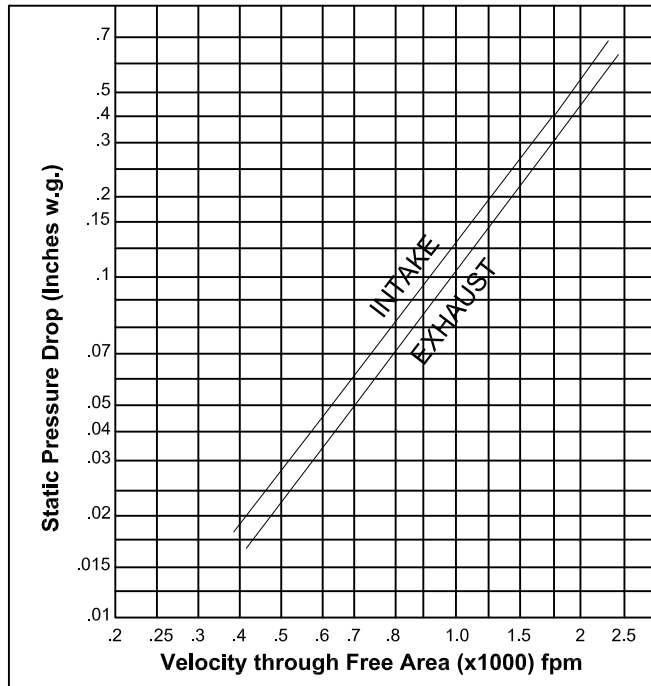
AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate. The louver system should be designed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

Beginning point of **WATER PENETRATION**
for **MODEL FL-D-4** lies above
1250 fpm
free area velocity at .01 oz. of water
(penetration)



United Enertech Corporation certifies that the louver model shown hereon is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with the AMCA publication 511 and comply with the requirement of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Air Performance and Water Penetration ratings.

PRESSURE DROP



TEST SIZE: 48" X 48"

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

FL-D-4 FREE AREA CHART (SQUARE FEET)

Louver Height Inches	Louver Width In Inches																		Louver Height Inches	
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114		120
12	0.32	0.51	0.71	0.91	1.10	1.30	1.50	1.70	1.89	2.09	2.29	2.48	2.68	2.88	3.08	3.27	3.47	3.67	3.86	12
18	0.55	0.90	1.24	1.59	1.93	2.28	2.63	2.97	3.32	3.66	4.01	4.35	4.70	5.04	5.39	5.73	6.08	6.42	6.77	18
24	0.80	1.30	1.80	2.30	2.80	3.30	3.80	4.30	4.80	5.30	5.80	6.30	6.80	7.30	7.80	8.30	8.80	9.30	9.79	24
30	0.99	1.61	2.23	2.84	3.46	4.08	4.70	5.31	5.93	6.55	7.17	7.78	8.40	9.02	9.64	10.25	10.87	11.49	12.11	30
36	1.21	1.97	2.73	3.48	4.24	4.99	5.75	6.51	7.26	8.02	8.78	9.53	10.29	11.05	11.80	12.56	13.31	14.07	14.83	36
42	1.47	2.38	3.30	4.22	5.13	6.05	6.96	7.88	8.79	9.71	10.63	11.54	12.46	13.37	14.29	15.20	16.12	17.04	17.95	42
48	1.69	2.75	3.80	4.86	5.91	6.96	8.02	9.07	10.13	11.18	12.24	13.29	14.35	15.40	16.45	17.51	18.56	19.62	20.67	48
54	1.92	3.12	4.32	5.52	6.72	7.92	9.11	10.31	11.51	12.71	13.91	15.11	16.31	17.51	18.70	19.90	21.10	22.30	23.50	54
60	2.16	3.50	4.85	6.19	7.53	8.88	10.22	11.57	12.91	14.26	15.60	15.94	18.29	19.63	20.98	22.32	23.67	25.01	26.35	60
66	2.39	3.88	5.37	6.86	8.35	9.84	11.33	12.82	14.31	15.80	17.29	18.79	20.28	21.77	23.26	24.75	26.24	27.73	29.22	66
72	2.63	4.26	5.90	7.54	9.18	10.81	12.45	14.09	15.73	17.36	19.00	20.64	22.28	23.91	25.55	27.19	28.83	30.46	32.10	72
78	2.85	4.63	6.40	8.18	9.95	11.73	13.51	15.28	17.06	18.84	20.61	22.39	24.16	25.94	27.72	29.49	31.27	33.05	34.82	78
84	3.11	5.04	6.98	8.91	10.85	12.78	14.72	16.66	18.59	20.53	22.46	24.40	26.34	28.27	30.21	32.14	34.08	36.01	37.95	84
90	3.34	5.42	7.50	9.58	11.66	13.74	15.82	17.90	19.97	22.05	24.13	26.21	28.29	30.37	32.45	34.53	36.61	38.69	40.77	90
96	3.58	5.82	8.05	10.29	12.52	14.76	16.99	19.22	21.46	23.69	25.93	28.16	30.39	32.63	34.86	37.10	39.33	41.57	43.80	96
102	3.76	6.10	8.44	10.78	13.12	15.47	17.81	20.15	22.49	24.83	27.17	29.52	31.86	34.20	36.54	38.88	41.22	43.57	45.91	102
108	4.05	6.58	9.11	11.64	14.16	16.69	19.22	21.75	24.27	26.80	29.33	31.86	34.38	36.91	39.44	41.96	44.49	47.02	49.55	108
114	4.24	6.89	9.53	12.18	14.82	17.47	20.12	22.76	25.41	28.05	30.70	33.34	35.99	38.63	41.28	43.92	46.57	49.21	51.86	114
120	4.48	7.27	10.06	12.85	15.64	18.43	21.22	24.02	26.81	29.60	32.39	35.18	37.97	40.76	43.55	46.34	49.14	51.93	54.72	120