United Enertech

(ENGINEERS)

SUBMITTAL DATA

Drainable Blade w/ Jamb Gutters Downspouts

HIGH PERFORMANCE ADJUSTABLE LOUVER

Application and Features

The Model AFL-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 blade and downspouts jamb 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 4.16" deep.

BLADES:
.081 Extruded Aluminum Positioned on a 37° angle on approximately 2.88" centers.

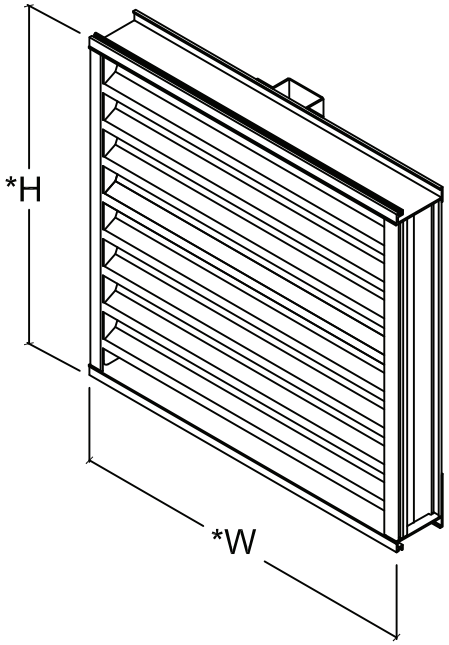
LINKAGE:
In Airstream

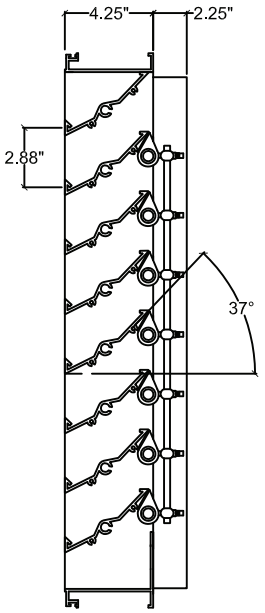
BIRDSCREEN:
3/4" X .051 Flattened Aluminum in Removable Frame. Screen is mounted on inside (rear) as looking from exterior of building.

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 x48"h
Larger sizes are field assembled.





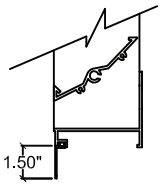
OPTIONS (at additional cost)

- ☐ Flanged Frame (1-1/2" std.)
- ☐ Custom Flange (1", 2", or 3")
- ☐ Glazing Adapter (1/2" or 3/4")
- ☐ Extended Sill
- ☐ Insect Screen (Aluminum 18-16 Mesh)
- ☐ Filter Racks
- ☐ Security Bars
- ☐ Hinged Subframe
- ☐ Blade Seals (EPDM)
- ☐ Compression Jamb Seals (Stainless Steel)

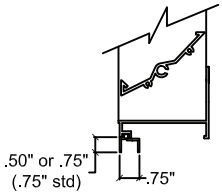
FINISHES (at additional cost)

- ☐ Baked Powder Polyester
- ☐ Baked Powder Fluropolymer 70%
- ☐ Baked Powder Clear Coat
- ☐ Clear Anodize
- ☐ Integral Color Anodize

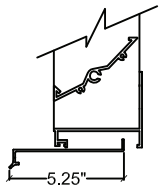
amca CERTIFIED RATINGS
WATER PENETRATION
AIR PERFORMANCE
AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.



OPTIONAL FLANGE



OPTIONAL GLAZING ADAPTER



OPTIONAL EXTENDED SILL

*W & H dimensions furnished approximately 1/4" under size.

Job Name:	☐ **MODEL AFL-D-4**		
Location:			
Architect:	DRAWN BY: CLJ	DATE: APRIL 1998	REV. DATE: JANUARY 2009
Engineer:			
Contractor:	REV. NO. 5	APPROVED BY: BGT	DWG. NO.: **E-3**

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 jambs and mullions. adjustable drainable blades shall be contained within a 4-1/8" 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 #AFL-D-4 6063T6 extruded aluminum construction as follows:

Frame: 4-1/8" deep, .081 nominal wall thickness.
Blades: .081 nominal wall thickness. Drainable. Blades are positioned at 37-degree angle and spaced approximately 2.188 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.

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

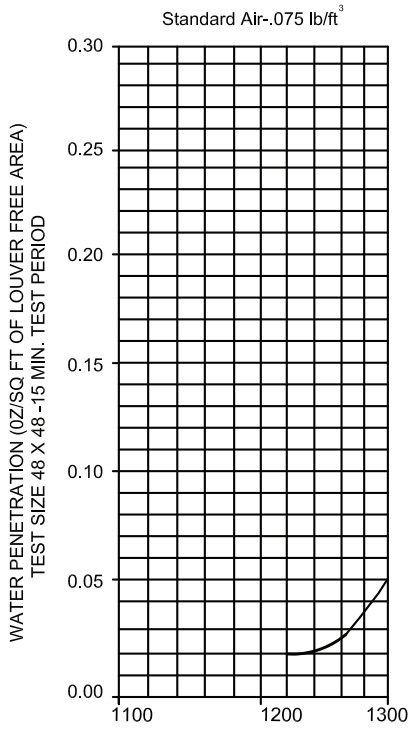
is

1217 fpm

the maximum recommended FREE AREA VELOCITY

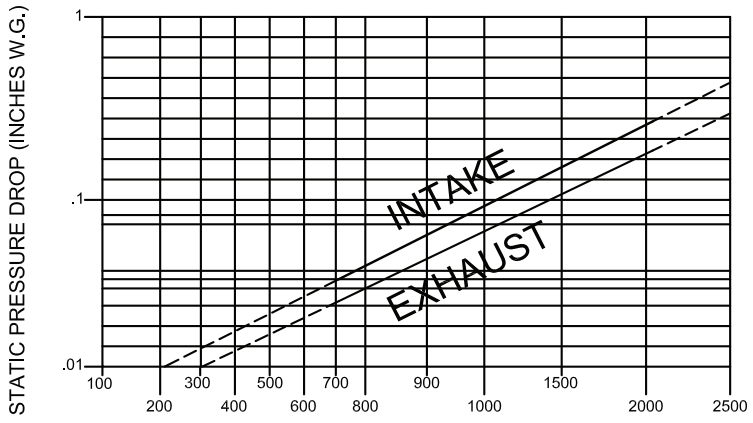
United Enertech certifies that the AFL-D-4 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA certified rating seal applies to air performance ratings and water penetration ratings.

WATER PENETRATION



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

PRESSURE DROP



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

AMCA set up figure 5.5 used for pressure drop test

Louver Selection and Application

FREE AREA CHART (SQUARE FEET)

Louver Height Inches	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	12
18	0.47	0.77	1.05	1.35	1.64	1.94	2.24	2.52	2.82	18
24	0.68	1.11	1.53	1.96	2.38	2.81	3.23	3.66	4.08	24
30	0.84	1.37	1.89	2.41	2.94	3.47	3.99	4.51	5.04	30
36	1.03	1.67	2.32	2.96	3.60	4.24	4.89	5.53	6.17	36
42	1.25	2.02	2.81	3.59	4.36	5.14	5.92	6.62	7.47	42
48	1.44	2.34	3.23	4.13	5.02	5.92	6.81	7.71	8.61	48
54	1.63	2.65	3.67	4.69	5.71	6.73	7.74	8.76	9.78	54
60	1.84	2.98	4.12	5.26	6.40	7.55	8.69	9.83	10.97	60
66	2.03	3.29	4.56	5.83	6.55	7.10	9.63	10.90	12.16	66
72	2.24	3.62	5.02	6.41	7.80	9.19	10.58	11.98	13.37	72
78	2.42	3.94	5.44	6.95	8.46	9.97	11.48	12.99	14.50	78
84	2.64	4.59	5.93	7.57	9.22	10.86	12.51	14.17	15.82	84
90	2.84	4.61	6.38	8.14	9.91	11.69	13.45	15.22	16.97	90
96	3.04	4.95	6.84	8.75	10.65	12.31	14.44	16.34	18.24	96