

HIGH PERFORMANCE COMBINATION LOUVER/DAMPER 4"

APPLICATION AND FEATURES:

The Model CFL-D-4 is a weather louver combination damper designed to protect the outside opening in building exterior walls. These louvers may be used for exhaust or intake air. This model incorporated drainable blade and downspouts jamb gutter design for high performance.

STANDARD CONSTRUCTION

FRAME:

.081" Extruded Aluminum 4.16" deep.

ADJUSTABLE BLADE:

.125" Extruded Aluminum

FIXED BLADE:

.081 Extruded Aluminum Positioned on a 37° angle on approximately 3" centers.

LINKAGE:

Exposed

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:

Factory assembled multi-section max: 96"w x 120"h
48"w x 120"h single section
Larger sizes are field assembled.

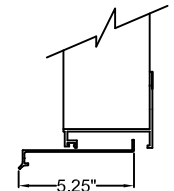
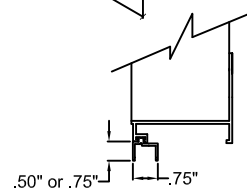
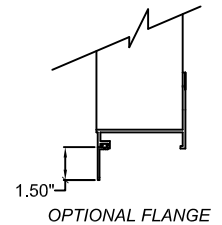
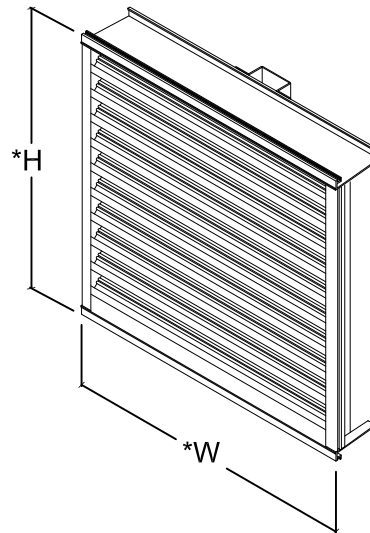
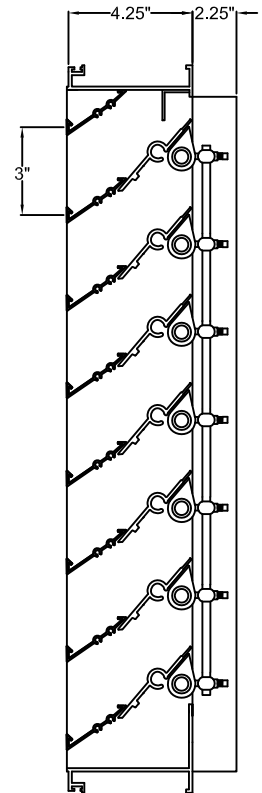
Note: Drainable blade louvers should be limited to 10' maximum section width (no more than 10' between vertical downspouts) to enable the drainable design to function effectively.

OPTIONS: (at additional cost)

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

FINISHES:

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



OPTIONAL GLAZING ADAPTER

OPTIONAL EXTENDED SILL

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

Job Name:	<input type="checkbox"/> MODEL CFL-D-4		
Location:			
Architect:	DRAWN BY:	DATE:	REV. DATE:
Engineer:	CLJ	8-4-06	02-03-10
Contractor:	REV. NO.	APPROVED BY:	DWG. NO.:
	9	BGT	E-4b

Louver Selection and Application

MODEL CFL-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	
12	0.49	0.73	0.98	1.22	1.47	1.71	1.96	2.20	2.45	12
18	0.73	1.10	1.47	1.84	2.20	2.57	2.94	3.30	3.67	18
24	0.98	1.47	1.96	2.45	2.94	3.43	3.92	4.41	4.90	24
30	1.22	1.84	2.45	3.06	3.67	4.28	4.90	5.51	6.12	30
36	1.47	2.20	2.94	3.67	4.41	5.14	5.88	6.61	7.34	36
42	1.71	2.57	3.43	4.28	5.14	6.00	6.85	7.71	8.57	42
48	1.96	2.94	3.92	4.90	5.88	6.85	7.83	8.81	9.79	48
54	2.20	3.30	4.41	5.51	6.61	7.71	8.81	9.91	11.02	54
60	2.45	3.67	4.90	6.12	7.34	8.57	9.79	11.02	12.24	60
66	2.69	4.04	5.39	6.73	8.08	9.42	10.77	12.12	13.46	66
72	2.94	4.41	5.88	7.34	8.81	10.28	11.75	13.22	14.69	72

CFL-D-4 Selection Examples

Example 1:

Airflow given as 10,000 cfm - select louver size

- A. Determine louver free area by dividing airflow by free area velocity (do not exceed 1250 fpm on intake louver application)

$$\frac{10,000 \text{ cfm}}{1250 \text{ fpm}} = 8.0 \text{ sq.ft.}$$

Airflow F.A.V. Req'd. Louver Free Area

- B. Select a louver with at least the required louver free area from the Free Area Chart Above.

48"W x 54"H
8.81 sq. ft. free area
1135 fpm free area velocity (10,000) cfm / 8.81 sq.ft. F.A.
(Other selections available - See Free Area Chart above.)

Example 2:

Louver size given 42"W x 72"H intake - determine maximum airflow.

- A. Use Free Area Chart to determine
Free Area = 10.28 sq. ft.

- B. Free Area x Free Area Velocity (do not exceed 1250 fpm on intake louver applications).

$$10.28 \text{ sq. ft.} \times 1250 \text{ fpm} = 12,850 \text{ cfm}$$

Free Area F.A.V. Max Airflow