MODEL CFL-D-4 HIGH PERFORMANCE COMBINATION LOUVER/DAMPER 4"

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.

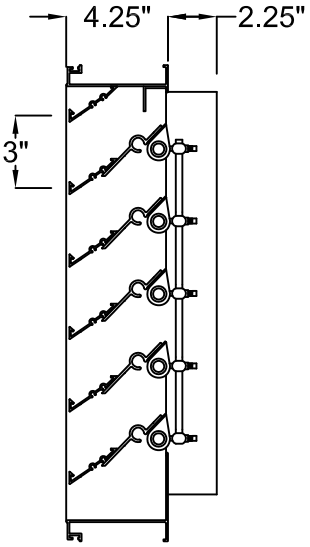
LINKAGE: Exposed

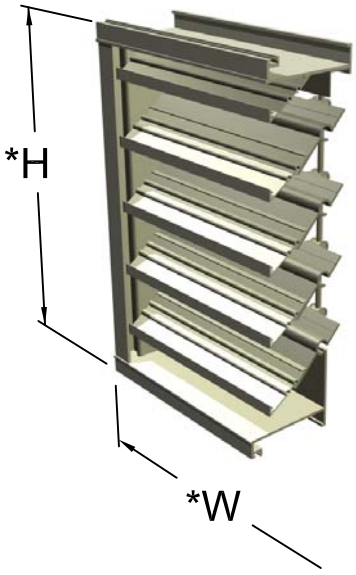
BIRDSCREEN:
3/4" X .051 Flattened Aluminum in Removable Frame.
Screen is mounted on inside (rear) as looking from exterior of building.

FINISH: Mill aluminum (std.)

MINIMUM SIZE: 12"w x 12"h

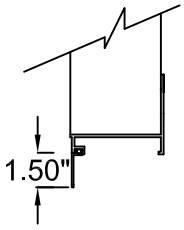
MAXIMUM SIZE:
Factory assembled multi-section max: 96"w x 120"h
48"w x 120"h single section
Larger sizes are field assembled.





OPTIONS:

- ☐ Flanged Frame (1.5" std.)
- ☐ Custom Flange (1", 2", or 3")
- ☐ Glazing Adapter (.50" or .75")
- ☐ Extended Sill
- ☐ Insect Screen
- ☐ Filter Racks (no screen)
- ☐ Security Bars
- ☐ Hinged Sub Frame
- ☐ Welded construction
- ☐ Blank-off, Alum., non-insulated, no screen, non-removeable
- ☐ Blank-off, Alum., non-insulated, with bird screen or insect screen
- ☐ Blank-off, Alum., insulated double wall, with bird screen, removable
- ☐ Blank-off, Alum., insulated double wall, no screen, non-removable

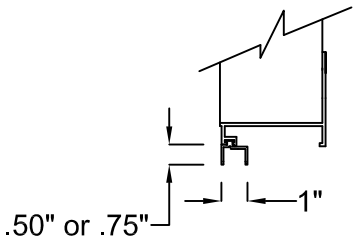


OPTIONAL FLANGE

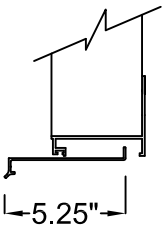
AVAILABLE FINISHES:

- ☐ **Powder Polyester TGIC** (2 coats) baked on at 410°F, 2.5 to 3.5 mils Meets AAMA-2603 Standards
- ☐ **Powder Super durable polyester** (2 coats) baked on at 410°F, 2.5 to 3.5 mils Meets AAMA-2604-05 Standards
- ☐ **Acrylic baked enamel** (ACRA-BOND® ULTRA) by AkzoNobel baked on at 350°F, 0.8 to 1.2 mils dry Meets AAMA-2603 Standards
- ☐ **Kynar**® (ALUM*A*STAR®) 2 coats by AkzoNobel baked on at 450°F, 1.2 to 1.6 mils dry Meets AAMA-2605-05 Standards
- ☐ **Kynar 500**® or HYLAR® 5000 70% TRINAR® (2 coats) by AkzoNobel baked on at 450°F, 1.2 to 1.6 mils dry, Meets AAMA-2605-05 Standards
- ☐ **Kynar 500**® or HYLAR® 5000 (70% Tri-Escent II) (2 coats) by AkzoNobel, a superior finish to other metallic or anodized finishes. A blend of mica, ceramic, and inorganic pigments creates subtle yet dazzling design that goes beyond metallic color without the requirement of a clear coat. 14 standard colors - custom colors available. Baked on at 415°F, 1.4 to 1.8 mils dry, meets AAMA 2605-05.
- ☐ **Clear Anodize** 204 R-1 Class II (AA-C22A31)(0.4 to 0.7 mil)
- ☐ **Clear Anodize** 215 R-1 Class I (AA-C22A41)(>0.7 mil)
- ☐ **Integral Color Anodize** (AA-C22A42)(>0.7 mil)

- Clear coat available for all above finishes.
- Hylar® 5000 is a registered trademark of Solvay Solexis, Inc.
- Kynar® 500 is a registered trademark of Arkema.
- ALUM*A*STAR® 50 and TRINAR® are registered trademarks of AkzoNobel
- ACRA-BOND® ULTRA is a registered trademark of AkzoNobel



OPTIONAL EXTENDED SILL



OPTIONAL EXTENDED SILL

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

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

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MODEL CFL-D-4 (High Performance Combination Louver/Damper 4")

DRAWN BY:	DATE:	REV. DATE:	REV. NO.	APPROVED BY:	DWG. NO.:
MHM	6-8-10	7-7-10	1	BGT	A-32

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)

10,000 cfm / 1250 fpm = 8.0 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 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 sq. ft. x 1250 fpm = 12,850 cfm
Free Area F.A.V. Max Airflow