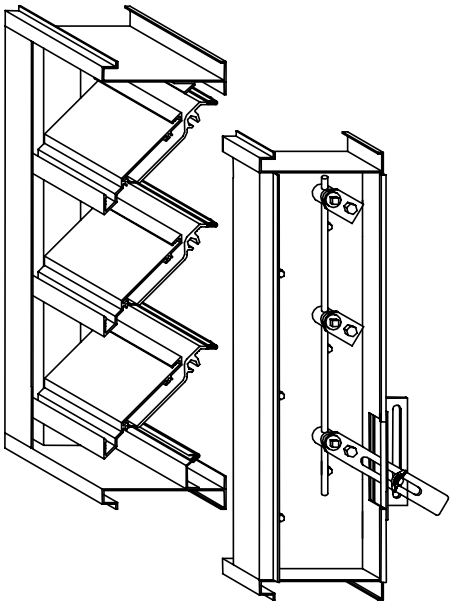
DEPENDABLE PRODUCTS SINCE 1955

Combination Fixed / Adjustable Blade Louver Model C-LEC-46

Design Features – Combination feature gives a hidden effect and superior shut off quality to competitive designs. Useful applications are high static pressure systems or where the tightest possible seal is required.



STANDARD CONSTRUCTION

ALL MATERIAL – EXTRUDED ALUMINUM 6063-T5 (KB-45)

FRAME
6" (152) Deep, .081" (2.1) extruded aluminum in style #3

BLADES
Fixed - Drainable.081" (2.1) extruded aluminum @ 5-1/2" (140) @ 45º
Adjustable - .125" thk. (3.2) extruded aluminum

BLADE AXLES & BEARINGS
Axles – 7/16" (11) plated steel hex
Bearings –bronze oilite

LINKAGE
Plated steel concealed in jamb

BLADE & JAMB SEALS
Vinyl blade and flexible metal jamb seals

MAXIMUM SIZE
Unlimited, with mullions, structural bracing supplied by others

MAXIMUM SINGLE SECTION
60" W x 96"H (1524 X 2438) (Over 60" (1524) wide will have double linkage)

MULLION
Visible

MINIMUM SIZE
12"w x 12"h (305 X 305)

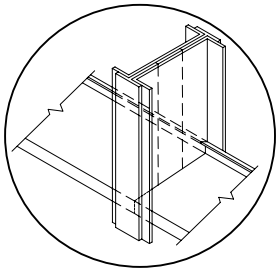
UNDERSIZED
1/4" (6) under ordered size unless specified Exact or Actual

SCREEN
3/4" x .051" (19 X 1.3) flattened expanded aluminum bird screen in frame

FINISH
Mill

OPERATOR
Wing-nut adjustable

MULLION STYLE



Visible

PERFORMANCE

Point of water penetration	886 fpm (270)
Free area 48 x 48 section	44%

OPTIONAL CONSTRUCTION

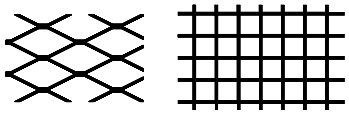
FRAME – Available in a heavier extrusion of .125" (3.2)
BLADES - Available in a heavier extrusion of .125" (3.2)
SCREEN - Many styles available please consult screen listing
LINKAGE – Blade mounted
FINISH – Air-dry primer, polyurethane, epoxy, or enamel, baked epoxy or enamel, Kynar, or Powder coat.
OPERATOR – Manual, Electric or Pneumatic

SPECIAL PURPOSE CONSTRUCTION

Welded linkage
Security bars
Filter racks
Sleeved for ductwork connection
Jackshaft when required

** Consult SAFE-AIR/DOWCO for additional technical information.

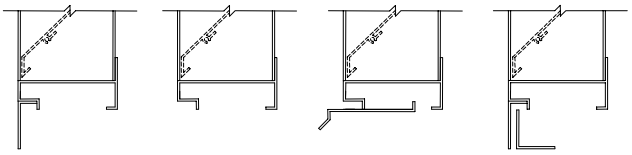
TYPICAL SCREEN STYLES



Expanded Aluminum Standard

Wire Mesh

FRAME STYLES



(1) - Flange 1-1/2"

(3) - Box Standard

(8) - Box and Sill Extension

(9) - Flange w/ sub frame

DATE	ARCHITECT			CUSTOMER
PROJECT				
ITEM	QTY	W	H	DESCRIPTION

DEPENDABLE PRODUCTS SINCE 1955

SAFE-AIR OF ILLINOIS INC.

Engineering and General Offices

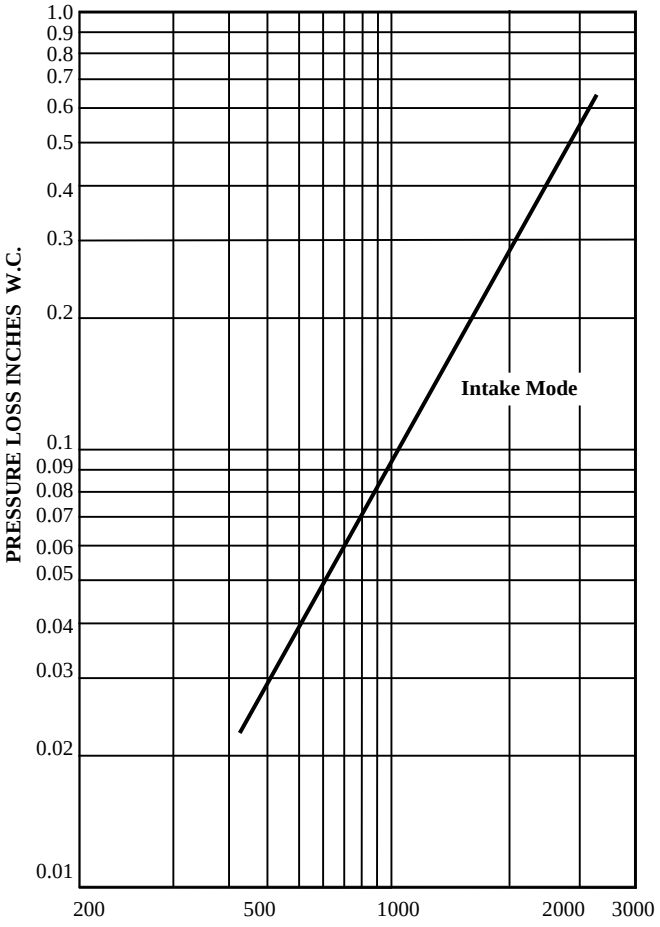
1855 South 54th Avenue, Cicero, Illinois 60804

Phone 708-652-9100 FAX 708-652-9158

C-LEC-46 PERFORMANCE SPECIFICATIONS

All tests performed at an independent laboratory and based on AMCA standard 511 – 91 for air performance and water penetration.

AIR PERFORMANCE



CALCULATING PRESSURE LOSS

Based upon a given flow rate (in CFM), the flowing pressure loss may be determined from the "air performance" graph, knowing the sq. ft. of free area of the louver. Alternately, the free area may be determined based upon a volumetric flow rate and a maximum pressure loss. Utilizing the "air performance" graph.

_____in. W.C. Max. Pressure Loss Intake or Exhaust

_____FPM (Free Area Velocity From "Air Performance" Graph)

_____CFM / ____ FPM Free Area Velocity = _____Sq. Ft. Free Area

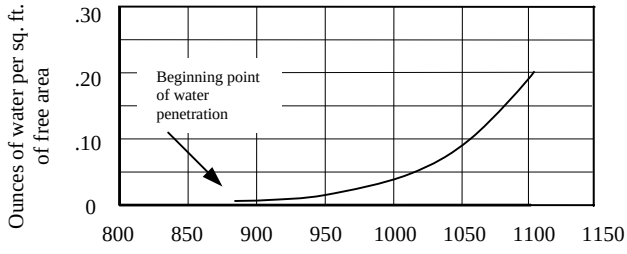
CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The "free area flow rate" at which water penetration commences (.01 oz. of water) is established at, 886 fpm (270) for C-LEC-46, and will vary depending upon actual weather conditions. The "water penetration" graph illustrates the results of actual laboratory test on a 48" x 48" (1219 x 1219) test sample subjected to hypothetical rainfall conditions. To determined the free area (in sq. ft.) based on upon a known volumetric flow rate in CFM;

_____CFM/_____FPM=_____SQ. FT. FREE AREA
(System Requirements)

Water Penetration Graph
in oz. of water per sq. ft. of
free area over a 15 min. test period

.01	.02	.05	.1	.2	(H20)
886	938	1005	1056	1107	(fpm)



886 fpm (270) beginning of water penetration

FREE AREA CALCULATIONS IN SQ. FT.

WIDTH

HEIGHT

Inches	12 (305)	18 (457)	24 (610)	30 (762	36 (914)	42 (1067)	48 (1219)	54 (1372)	60 (1524)
12 (305)	.21 (.02)	0.35 (.03)	0.50 (.05)	0.64 (.06)	0.74 (.07)	0.94 (.09)	1.08 (.10)	1.23 (.11)	1.37 (.13)
18 (457)	.41 (.04)	0.69 (.06)	0.98 (.09)	1.27 (.12)	1.55 (.14)	1.84 (.17)	2.12 (.20)	2.41 (.22)	2.70 (.25)
24 (610)	.59 (.05)	1.01 (.09)	1.43 (.13)	1.85 (.17)	2.27 (.21)	2.69 (.25)	3.11 (.29)	3.53 (.33)	3.95 (.37)
30 (762)	.78 (.07)	1.33 (.12)	1.89 (.18)	2.44 (.23)	2.99 (.28)	3.54 (.33)	4.10 (.38)	4.65 (.43)	5.20 (.48)
36 (914)	.97 (.09)	1.66 (.15)	2.34 (.22)	3.03 (.28)	3.71 (.34)	4.40 (.41)	5.08 (.47)	5.77 (.54)	6.45 (.60)
42 (1067)	1.16 (.11)	1.98 (.18)	2.79 (.26)	3.61 (.34)	4.43 (.41)	5 (.49)	6.07 (.56)	6.88 (.64)	7.70 (.72)
48 (1219)	1.35 (.13)	.3 (.28)	3.25 (.30)	4.20 (.39)	5.15 (.48)	6.10 (.57)	7.05 (.65)	8.00 (.74)	8.95 (.83)
54 (1372)	1.53 (.14)	2.62 (.24)	3.70 (.34)	4.79 (.44)	5.87 (.55)	6.95 (.65)	8.04 (.75)	9.12 (.85)	10.20 (.95)
60 (1524)	1.75 (.16)	2.98 (.28)	4.21 (.39)	5.44 (.51)	6.67 (.62)	7.91 (.73)	9.14 (.85)	10.37 (.96)	11.60 (1.08)
66 (1676)	1.96 (.18)	3.34 (.31)	4.72 (.44)	6.10 (.57)	7.48 (.69)	8.86 (.82)	10.24 (.95)	11.62 (1.08)	13.00 (1.21)
72 (1829)	2.17 (.20)	3.69 (.34)	5.22 (.48)	6.75 (.63)	8.28 (.77)	9.81 (.91)	11.34 (1.05)	12.87 (1.20)	14.40 (1.34)
78 (1981)	2.38 (.22)	4.05 (.38)	5.73 (.53)	7.41 (.69)	9.09 (.84)	10.76 (1.00)	12.44 (1.16)	14.12 (1.31)	15.80 (1.47)
84 (2134)	2.59 (.24)	4.41 (.41)	6.24 (.58)	8.06 (.75)	9.89 (.92)	11.72 (1.09)	13.54 (1.26)	15.37 (1.43)	17.19 (1.60)
90 (2286)	2.80 (.26)	4.77 (.44)	6.75 (.63)	8.72 (.81)	10.69 (.99)	12.67 (1.18)	14.64 (1.36)	16.62 (1.54)	18.59 (1.73)
96 (2438)	3.01 (.28)	5.13 (.48)	7.25 (.67)	9.38 (.87)	11.50 (1.07)	13.62 (1.27)	15.74 (1.46)	17.87 (1.66)	19.99 (1.86)