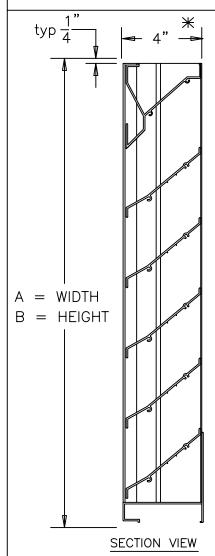
EXTRUDED ALUMINUM, 4" DEEP, FIXED J TYPE BLADE



MODEL LE-49 STANDARD SPECIFICATIONS

FRAME: 4" DEEP CHANNEL, .081" THICK 6063-T5

EXTRUDED ALUMINUM ALLOY.

BLADES: .081" THICK 6063-T5 EXTRUDED ALUMINUM ALLOY.

FINISH: MILL.

SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD

SCREEN, LOCATED ON INTERIOR.

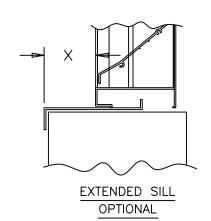
MAXIMUM PANEL SIZE: 96" X 96".

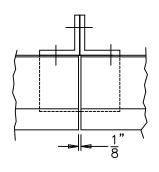
MINIMUM PANEL SIZE: 12" X 12".

DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING

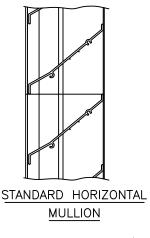
SIZES. LOUVERS ARE MADE 1/2" UNDERSIZE.

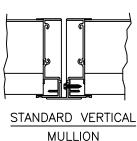
** PANELS OVER 48" WIDE WILL BE 5-1/2" DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.

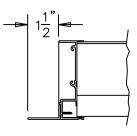




ARCHITECTURAL VERTICAL MULLION OPTIONAL







FLANGED FRAME
OPTIONAL
(JAMB SHOWN)



American Warming and Ventilating certifies that the model LE-49 louver 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 Ratings Seal applies to air performance ratings and water penetration ratings.

QUV american warming and ventilating

A MESTEK COMPANY

7301 INTERNATIONAL DRIVE Phone (419) 865-5000 HOLLAND, OHIO Fax (419) 865-1375

LE-49 STATIONARY LOUVER

DRN. BY JVC

DWG. NO.

REV.

DATE 8/13/09

LE-49

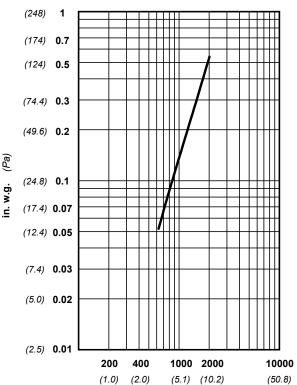
Water Penetration Pressure Drop

Free Area

: 0.01 oz (3.0 g) at 902 fpm (4.58 m/s) recommended free area velocity : 0.11 in wg (27.3 Pa.) at 902 fpm (4.58 m/s) and 8271 scfm (3.9 scm/s)

: 9.17 sq ft (0.852 sq m) = 57.3% for 48" x 48" (1.22m x 1.22m) test size

INTAKE PRESSURE DROP



VELOCITY THROUGH FREE AREA fpm (m/s)

standard air- .075 lbs per cu ft
Ratings do not include the effect of a wire bird screen
Test based on a 48" x 48" test size per AMCA Standard 511



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LE-49

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 902 fpm (4.58 m/s).

To determine minimum free area required for louver:

Step #1: Divide the required CFM flow by the maximum recommended free area velocity.

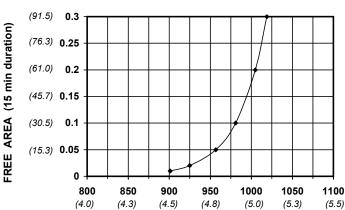
Step #2: Select the most desirable louver size, from the free area table, that meets the minimum free area requirement.

Step #3: Compare specified performance to the certified water penetration and pressure drop ratings.

FREE AREA IN SQUARE FEET (sq meters)

	WIDTH								
неіснт	in.	12	24	36	48	60	72	84	96
	mm	305	610	914	1219	1524	1829	2134	2438
	12	0.28	0.64	1.00	1.36	1.73	2.09	2.45	2.81
	305	0.026	0.060	0.093	0.127	0.160	0.194	0.228	0.261
	24	0.81	1.86	2.92	3.97	5.02	6.07	7.13	8.18
	610	0.075	0.173	0.271	0.369	0.466	0.564	0.662	0.760
	36	1.35	3.10	4.86	6.61	8.36	10.12	11.87	13.62
	914	0.125	0.288	0.451	0.614	0.777	0.940	1.102	1.265
	48	1.87	4.31	6.74	9.17	11.60	14.03	16.47	18.90
	1219	0.174	0.400	0.626	0.852	1.078	1.304	1.530	1.755
	60	2.41	5.53	8.66	11.78	14.91	18.03	21.15	24.28
	1524	0.224	0.514	0.804	1.094	1.385	1.675	1.965	2.255
	72	2.93	6.73	10.54	14.34	18.14	21.95	25.75	29.56
	1829	0.272	0.626	0.979	1.332	1.686	2.039	2.392	2.745
	84	3.46	7.96	12.45	16.94	21.44	25.93	30.42	34.92
	2134	0.322	0.739	1.157	1.574	1.991	2.409	2.826	3.244
	96	3.99	9.16	14.34	19.51	24.69	29.86	35.03	40.21
	2438	0.370	0.851	1.332	1.812	2.293	2.774	3.254	3.735

WATER PENETRATION



VELOCITY THROUGH FREE AREA fpm (m/s)

Both maximum recommended free area velocity and beginning of water penetration are 902 fpm at standard air -.075 lbs per cu ft. The above water penetration data is based on mill finish, 48" x 48" test size per AMCA Standard 511.

Openings that require multiple louver panels in both width and height will require internal structural supports. It is recommended that large openings be divided with structural members so that the louvers will span either width or height with a single panel. Unusually high wind loading may require structural supports on non-multiple wide and multiple high assemblies. Structural supports and mounting accessories are not supplied as a standard.

Example: Given: 15000 CFM design flow

Step #1:

min. free area = Design CFM
Max. Recommended Velocity

= 15000 = 16.63 sq ft

Step #2: From the free area table above the approximate louver size is 48" x 84" = (16.94 sq ft)